

Academic Catalog

City Colleges of Chicago
2022-2023



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OVERVIEW

Mission

City Colleges of Chicago (CCC) delivers exceptional learning opportunities and educational services for diverse student populations in Chicago.

We enhance knowledge, understanding, skills, collaboration, community service and life-long learning by providing a broad range of quality, affordable courses, programs, and services to prepare students for success in a technologically advanced and increasingly interdependent global society.

We work proactively to eliminate barriers to employment and to address and overcome casual factors underlying socioeconomic disparities and inequities of access and graduation in higher education.

www.ccc.edu/menu/pages/mission (<http://www.ccc.edu/menu/Pages/Mission.aspx>)

Richard J. Daley College

Richard J. Daley College empowers our diverse community to achieve their goals through innovative education and programming in a supportive, inclusive, and equitable environment for life-long learning.

www.ccc.edu/colleges/daley/menu/Pages/Mission (<http://www.ccc.edu/colleges/daley/menu/Pages/Mission.aspx>)

Harold Washington College

Harold Washington College is a student-centered institution that empowers all members of its community through accessible and affordable academic advancement, career development and personal enrichment.

www.ccc.edu/colleges/washington/menu/pages/mission (<http://www.ccc.edu/colleges/washington/menu/Pages/Mission.aspx>)

Kennedy-King College

Kennedy-King College transforms lives and communities through the power of education by providing accessible, culturally diverse, exceptional, and globally competitive programs that empower all learners to achieve their intellectual, social, and economic goals

www.ccc.edu/colleges/kennedy/menu/Pages/Mission (<http://www.ccc.edu/colleges/kennedy/menu/Pages/Mission.aspx>)

Malcolm X College

Malcolm X College provides accessible liberal arts and health-focused education that fosters personal and professional achievement.

www.ccc.edu/colleges/malcolm-x/menu/pages/mission (<http://www.ccc.edu/colleges/malcolm-x/menu/Pages/Mission.aspx>)

Olive-Harvey College

The mission of Olive-Harvey College is to develop a diverse community of cultural and civic leaders and to advance progressive global citizenship through academic excellence, work-based learning, and comprehensive support services.

www.ccc.edu/colleges/olive-harvey/menu/pages/mission (<http://www.ccc.edu/colleges/olive-harvey/menu/Pages/Mission.aspx>)

Harry S Truman College

Our Mission dedicates us to deliver high-quality, innovative, affordable and accessible educational opportunities and services that prepare students for a rapidly changing and diverse global economy.

www.ccc.edu/colleges/truman/menu/Pages/Mission (<http://www.ccc.edu/colleges/truman/menu/Pages/Mission.aspx>)

Wilbur Wright College

Wright College is a learning-centered, multi-campus institution of higher education offering students of diverse backgrounds, talents and abilities a quality education leading to baccalaureate transfer, career advancement and/or personal development.

www.ccc.edu/colleges/wright/menu/pages/mission (<http://www.ccc.edu/colleges/wright/menu/Pages/Mission.aspx>)

College Information

Richard J. Daley College

Richard J. Daley College's main campus and its satellite campus Arturo Velasquez Institute serve Chicago's Southwest Side. The college prepares students to head directly into careers and to transfer to four-year universities, offering associate degrees, shorter-term certificate programs, free adult education classes, and special interest courses. Daley College is the center of excellence in engineering and advanced manufacturing. In 2019, it unveiled a state-of-the-art Manufacturing Technology and Engineering Center (MTEC), enabling students to participate in a hands-on curriculum that prepares them for the technological advancements in the engineering and manufacturing industries. With more than 75% percent of its student population identifying as Hispanic, the college has earned the designation of an Hispanic Serving Institution.

7500 South Pulaski Road
Chicago, Illinois 60652

Center of Excellence:
Advanced Manufacturing

Arturo Velasquez Institute

2800 South Western Avenue
Chicago, Illinois 60608

For more info, visit www.ccc.edu/daley (<http://www.ccc.edu/daley/>)

Harold Washington College

Harold Washington College is located in the Chicago Loop area and serves students from throughout the city. The college is located in an area considered to have the largest higher education footprint in Illinois with several colleges and universities nearby. Many students start at Harold Washington to jumpstart their college career and transfer on to complete a bachelor's degree at institutions across the nation. Harold Washington College is the center of excellence in business and

professional services. The college is also home to the Goldman Sachs 10,000 Small Businesses program, and hosts an array of arts programs, including a partnership with the Joffrey Ballet that provides students with the opportunity to earn an Associate Degree in Art with a focus on dance. Starting in Fall 2019, the DePaul Harold Washington Academy, a first-of-its-kind partnership, will provide Star Scholar students with an affordable pathway to a bachelor's degree. Harold Washington College was recently recognized for institutional excellence and reaccredited by the Higher Learning Commission.

30 East Lake Street
Chicago, Illinois 60601

Center of Excellence:
Business and Professional Services

For more info, visit www.ccc.edu/hwc (<http://www.ccc.edu/hwc/>)

Kennedy-King College

Kennedy-King College embodies the commitment to academic excellence and civic responsibility espoused by its namesakes, civil and human rights activists Robert F. Kennedy and Dr. Martin Luther King, Jr. KKC's main campus is in Englewood on the south side of Chicago and includes the Washburne Culinary & Hospitality Institute; and the Dawson Technical Institute (the college's satellite campus in Bronzeville). KKC serves as a comprehensive community college, offering credit classes in a wide range of subjects, as well as continuing education classes, and free high school equivalency and ESL courses. It is City Colleges' center of excellence in culinary and hospitality, as well as construction technology education, and works with industry experts to ensure students are prepared for careers in those fields.

Culinary and hospitality courses are offered at Washburne Culinary & Hospitality Institute—where students receive hands-on training at restaurants serving the public, including on-campus restaurant Sikia. Dawson Technical Institute offers career opportunities in construction technology at companies, such as ComEd and Peoples Gas, and through major trade unions representing workers in the field.

6301 South Halsted Street
Chicago, Illinois 60621

Centers of Excellence:
Culinary Arts and Hospitality
Construction Technology

Dawson Technical Institute

3901 South State Street
Chicago, Illinois 60609

For more info, visit www.ccc.edu/kkc (<http://www.ccc.edu/kkc/>)

Malcolm X College

Malcolm X College (MXC) enrolls both credit and non-credit students. Located near the Illinois Medical District, Malcolm X is City Colleges' center of excellence in health sciences education. Malcolm X College's state-of-the-art campus includes the School of Health Sciences and School of Nursing, featuring a virtual hospital. In Spring 2019, Malcolm X College was named by the National Institute for Staff and Organizational Development (NISOD) and *Diverse: Issues in Higher Education* (an academic publication) as one of the Most Promising Places to Work in Higher Education. MXC was recognized for its best-in-class student and

staff recruitment and retention practices, inclusive learning and working environments, and meaningful community service and engagement opportunities.

1900 West Jackson Boulevard
Chicago, Illinois 60612

Center of Excellence:
Healthcare

West Side Learning Center

4624 West Madison Street
Chicago, Illinois 60644

For more info, visit www.ccc.edu/malcolm (<http://www.ccc.edu/malcolm/>)

Olive-Harvey College

Olive-Harvey College is located on the southeast side of Chicago. Situated on 67 acres, Olive-Harvey College is the largest physical campus within the District. Olive-Harvey also includes the South Chicago Learning Center (the college's satellite campus). Associate degree, certificate and short-term training programs are offered to prepare students to transfer to bachelor's degree programs or to move directly into the workforce. ESL courses help students master the English language while adult education courses prepare students to earn their high school equivalency. Non-credit classes range from short-term job training/career skills courses to personal development courses in a wide variety of areas.

Olive-Harvey College is the center for excellence in transportation, distribution, and logistics, and opened a state-of-the-art Transportation, Distribution and Logistics Training Center in 2019, supporting students as they pursue degrees and certificate programs in several fields, including: supply chain management and logistics; commercial driving; forklift operation; and automotive, diesel and aviation maintenance and technology.

10001 South Woodlawn Avenue
Chicago, Illinois 60628

Center of Excellence:
Transportation, Distribution, and Logistics

South Chicago Learning Center

3055 East 92nd Street
Chicago, Illinois 60617

For more info, visit www.ccc.edu/ohc (<http://www.ccc.edu/ohc/>)

Harry S Truman College

Harry S Truman College is located on the northeast side of Chicago in the Uptown neighborhood. Truman College is a vibrant and vital part of delivering high-quality, innovative, affordable and accessible educational opportunities and services. A comprehensive community college, Truman College offers credit class, continuing education classes, and free high school equivalency and ESL classes, supporting students on their way to their educational and career goals. It is City Colleges' center for excellence in education, human, and natural sciences, giving students the opportunity to become the best teachers by learning from the best teachers. Truman College offers a combination of certificates and associate degrees in those fields tailored for those first entering the

education profession as well as for professionals in need of continuing education.

1145 West Wilson Avenue
 Chicago, Illinois 60640

Center of Excellence:

Education
 Human Sciences (Liberal Arts) and Natural Sciences

For more info visit www.ccc.edu/truman (<http://www.ccc.edu/truman/>)

Wilbur Wright College

Wilbur Wright College is located on the northwest side of Chicago and serves college credit, adult education, and continuing education students every semester. The main campus, designed by Chicago's own award-winning architect Bertrand Goldberg, is at Montrose and Narragansett and offers an integrated environment for learning and support services. The college's satellite site, Wright College Humboldt Park, offers career and vocational training, including a NIMS-certified Computerized Numerical Control program, general education courses, adult education and continuing education courses.

Wright is a federally designated Hispanic Serving Institution (HSI) with Illinois' second largest enrollment of Hispanic college students. The college is active in the community with four-year partners and many area high schools.

4300 North Narragansett Avenue
 Chicago, Illinois 60634

Center of Excellence:

Engineering and Computer Science

Humboldt Park Vocational Education Center

1645 North California Avenue
 Chicago, Illinois 60647

For more info, visit www.ccc.edu/wright (<http://www.ccc.edu/wright/>)

Student Resources

Student Services

Each college offers a broad range of services to support the achievement of students' academic, career, and personal goals, as well as referrals to external support agencies, as needed. Some of the many student services are listed below and on subsequent pages. More information, including contact and location information at each college, may be found at www.ccc.edu/studentsservices (<http://www.ccc.edu/studentsservices/>).

Services and Resources	Website
Academic Calendar	www.ccc.edu/calendar (http://www.ccc.edu/calendar/)
Advising	www.ccc.edu/advising (http://www.ccc.edu/advising/)
Alumni	www.ccc.edu/alumni (http://www.ccc.edu/alumni/)
Career Planning and Placement	www.ccc.edu/careerservices (http://www.ccc.edu/careerservices/)

Child Development Lab Schools	www.ccc.edu/childcare (http://www.ccc.edu/childcare/)
Class Schedules	www.ccc.edu/classsschedules (http://www.ccc.edu/classsschedules/)
Disability Access Centers	www.ccc.edu/dac (http://www.ccc.edu/dac/)
International Students	www.ccc.edu/internationalstudents (http://www.ccc.edu/internationalstudents/)
Online Course Options	www.ccc.edu/onlinelearning (http://www.ccc.edu/onlinelearning/)
Placement Tests and Resources	www.ccc.edu/testing (http://www.ccc.edu/testing/)
Student Government Association (SGA)	www.ccc.edu/sga (http://www.ccc.edu/sga/)
Textbook Rental	www.ccc.edu/bookstore (http://www.ccc.edu/bookstore/)
Transfer Resources	www.ccc.edu/transfer (http://www.ccc.edu/transfer/)
Tutoring	www.ccc.edu/tutoring (http://www.ccc.edu/tutoring/)
Ventra U-Pass	www.ccc.edu/upass (http://www.ccc.edu/upass/)
Veterans Services	www.ccc.edu/veterans (http://www.ccc.edu/veterans/)
Wellness Centers	www.ccc.edu/wellnesscenter (http://www.ccc.edu/wellnesscenter/)

Financial Aid and Tuition

At City Colleges of Chicago, we are dedicated to helping students get the assistance they may need to attend one of our seven colleges. The Financial Aid Offices at City Colleges of Chicago work closely with students and families to provide financial assistance in the form of grants, loans, and work-study from federal and state resources. The Financial Aid Office is your guide and resource to help make college affordable. Please visit your respective college's Financial Aid Office for more information regarding the financial aid process.

Financial Services	Website
CAREER Agreement ¹	www.ccc.edu/chargeback (http://www.ccc.edu/chargeback/)
Financial Aid	www.ccc.edu/financialaid (http://www.ccc.edu/financialaid/)
Financial Obligation (Payment Arrangements)	www.ccc.edu/services/Pages/Pay-Tuition-and-Fees.aspx (http://www.ccc.edu/services/Pages/Pay-Tuition-and-Fees.aspx)
Residency	www.ccc.edu/services/pages/residency-verification.aspx (http://www.ccc.edu/services/pages/residency-verification.aspx)
Payment Information	www.ccc.edu/waystopay (http://www.ccc.edu/waystopay/)

Tuition Waivers	www.ccc.edu/services/Pages/Tuition-Waivers.aspx (http://www.ccc.edu/services/Pages/Tuition-Waivers.aspx)
Withdrawals and Refunds	www.ccc.edu/services/Pages/Tuition-Refund-Policy.aspx (http://www.ccc.edu/services/Pages/Tuition-Refund-Policy.aspx)

transferring with ease to colleges and universities and how personal goals can become a reality. Current students and alumni are invited to attend.

- **On-site Admission Days:** Eligible students can receive on-site admission, meet with selective enrollment admissions staff and get their financial aid packages up to one year prior to transferring.
- **College Success:** These classes include introductions to transferring for new students.

1

Cooperative agreement between Illinois community college districts for programs not offered by CCC.

Academic Catalog

Students are assigned an academic career, program, and plan upon enrolling (consistent with Focus Area and Pathway choices made by the student). Students are required to follow the academic program/plan requirements in the Academic Catalog in effect at the time of their enrollment, subject to CCC Academic Policy (<https://catalog.ccc.edu/academic-student-policy/>).

Academic and Student Policy Manual

All students at all times are subject to the current Academic and Student Policy Manual (<https://catalog.ccc.edu/academic-student-policy/>), unless a new board rule has superseded the text in the policy manual. The manual includes detailed policies related to student procedures and protocols including transfer policies, financial aid policies, grade designation, graduation, responsible computer use, and more. The complete Academic and Student Policy Manual can be found at catalog.ccc.edu/academic-student-policy/ (<https://catalog.ccc.edu/academic-student-policy/>).

Transfer Resources

For more information on transfer resources, visit www.ccc.edu/transfer (<http://www.ccc.edu/transfer/>)

Transfer Centers

It's never too early to begin planning for transfer. City Colleges of Chicago Transfer Centers exist to help students plan for a seamless transition to four-year institutions. The Transfer Director at each college oversees an annual cycle of programs and services. At your Transfer Center you can:

- **Find** out about CCC's partnerships with four-year institutions
- **Identify** four-year institutions that might be a good fit
- **Match** your graduation plan with your transfer goals
- **Obtain** college application fee waivers (pending eligibility)
- **Receive** scholarship assistance during the transfer process

Transfer Events at City Colleges

- **Transfer Fairs:** Over 100 colleges and universities come to City Colleges annually to recruit students. Students are encouraged to attend these fairs to plan for transfer.
- **College Recruitment Visits:** When school is in session, colleges and universities recruit students by making "table visits," Monday through Thursday at every City College.
- **The Transfer-mation Conference:** This District-wide event provides students with the opportunity to learn about career options,

Transfer Partnerships with City Colleges

Partnerships between City Colleges of Chicago and four-year institutions provide a smooth transition for CCC students into the college or university of their choice. The CCC Transfer Pages are continually updated with new transfer resources.

- **Scholarship Partners:** CCC has partnered with several colleges and universities to assist our students in gaining the necessary funds to complete their bachelors degree, including the CPS graduates who are awarded the Chicago Star Scholarship at CCC.
- **Admission Partnerships:** Consider signing up for Dual Admission, Guaranteed Admission, and Dual Enrollment partnerships with local, outstanding universities.
- **Program Articulation Partnerships:** CCC partners with many colleges and universities to increase the number of courses and programs that transfer from CCC to a 4-year institution. Be sure to work with the Advisor at CCC and at our 4-year partner to register for the courses that will transfer to your major program at the 4-year.
- **Transfer Guides:** Colleges and universities have created Transfer Guides for CCC students to use when planning for transfer.

Illinois Articulation Initiative (IAI)

City Colleges participates in Illinois Articulation Initiative, or IAI, a comprehensive state-wide effort among more than 100 colleges and universities in Illinois to facilitate the transfer of general education credits. Advisors will direct students to take IAI general education courses to fulfill the general education requirements whenever possible, since transfer is guaranteed by so many Illinois colleges.

- Students who complete the AA or AS degree at CCC or complete the CCC General Education Core Curriculum (GECC) Credential, and meet the admission requirements of an IAI-participating baccalaureate degree-granting institution to which they transfer, will have completed the lower-division general education requirements for an associate or baccalaureate degree in lieu of the receiving institution's general education requirements.
- Students who complete courses with IAI status at the college where the course is taken have the assurance that the course will be accepted for transfer, often as a direct equivalency, at participating institutions.

MyCreditsTransfer Powered by Transferology

MyCreditsTransfer (<http://www.mycreditstransfer.org/>) is a statewide initiative designed to facilitate transfer within Illinois using the nationally available tool, Transferology. Within Transferology students can find out how courses transfer between institutions, how courses satisfy degree requirements and the different majors institutions offer. City College students can create an account in Transferology and with the touch of a

button can import all of their CCC courses, allowing students to see how they will transfer to colleges by major. City College advisors and students use this system every day to plan for transfer.

Reverse Transfer of Credit

If you transfer to another college or university before completing your degree at City Colleges of Chicago, you can still earn an associate degree through the Reverse Transfer of Credit. Students who transfer to a four-year college or university can transfer back college credits to satisfy degree requirements at CCC.

CREDIT PROGRAM REQUIREMENTS

Associate in Applied Science

The Associate in Applied Science (AAS) degrees are occupational programs that are structured for students primarily interested in acquiring Career Technical Education (CTE) skills in order to enter the job market. However, a number of four-year institutions offer baccalaureate degrees designed to accommodate AAS degree graduates. Students planning to transfer to a four-year institution should meet with an advisor from the institution to which he/she plans to attend to discuss transferability of the AAS degree and individual courses.

Students seeking an AAS degree must select a program of study, (e.g., Child Development, Manufacturing Technology, Nursing) in order to determine the specific general education courses, the program core courses, and electives that are required to complete the program. An AAS degree is comprised of 50 to 75% of required technical core and specialty course work. Additionally, the AAS degree requires a minimum of 15 credit hours of general education. Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Applied Science degree.

Code	Title	Hours
Minimum General Education		15
Minimum Degree Core and Electives		45
Total Hours		60

Degree offered at: DA, KK, MX, OH, TR, HW, WR

Associate in Arts

The Associate in Arts (AA) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education.

For students who want to earn an associate degree before transferring to a four-year institution, the Associate in Arts degree (AA) is the traditional choice for most students. The AA degree indicates a student has mastered the basics of higher education. This degree plan provides you with the IAI General Education Core Curriculum (GECC) courses explained above, and in addition, you will select elective classes (25 credit hours).

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Arts degree.

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Mathematics		3
Fine Arts & Humanities ¹		9
Social and Behavioral Sciences		9
Physical Sciences & Life Sciences ²		7
AA Electives		

Students should work with a College Advisor to select appropriate core and elective courses or select an AA semester map as a guide. 23

Total Hours 60

1

At least one (1) of the courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

2

At least one (1) of the courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

Degree offered at: DA, KK, MX, OH, TR, HW, WR

Associate in Engineering Science

The Associate in Engineering Science (AES) degree offers courses required for transfer to a four-year college or university for students majoring in engineering sciences. Completion of the AES degree does not fulfill the requirements of the IAI General Education Core Curriculum (IAI GECC). City Colleges of Chicago requires that the degree is inclusive of a minimum of 22 semester hours of General Education. A student must complete the general education requirements of the college or university to which she/he transfers.

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
MATH 207	Calculus & Analytic Geometry I	5
CHEM 201	General Chemistry I	5
One Fine Arts & Humanities course ¹		3
One Social and Behavioral Sciences course ¹		3
Required Degree Core		
ENGR 190	Computer Programming for Engineers	3
or CIS 142	C++ Object Oriented Programming I	
MATH 208	Calculus & Analytic Geometry II	5
MATH 209	Calculus & Analytic Geometry III	5
MATH 210	Differential Equations	3
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
Electives		
Select a minimum of 16 credit hours of the following:		16
BIOLOGY 115	Human Biology	
BIOLOGY 121	Biology I	
CHEM 203	General Chemistry II	
CHEM 205	Organic Chemistry I	
CHEM 207	Organic Chemistry II	
CIS 144	Java Object Oriented Programming I	
CIS 242	C++ Object Oriented Programming II	
CIS 244	Java Object Oriented Programming II	
ENGR 111	Engineering Success Seminar	
ENGR 131	Engineering Graphics & Intro to Design	

ENGR 206	Elements of Mechanics-Statics
ENGR 215	Electrical Circuit Analysis
ENGR 250	Engineering Projects
MATH 146	Discrete Mathematics
MATH 212	Linear Algebra
PHYSICS 215	Statics
PHYSICS 216	Dynamics
PHYSICS 217	Mechanics Of Materials
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics

Total Hours 64

1

One of the courses in the Humanities or Social & Behavioral Sciences category must satisfy the Human Diversity requirement.

Degree offered at: DA, TR, HW, WR

Associate in Fine Arts

CCC offers three Associate in Fine Arts programs. See their program pages for requirements:

- Art (Studio), Associate in Fine Arts (p. 47)
- Music Education, Associate in Fine Arts (p. 252)
- Music Performance, Associate in Fine Arts (p. 254)

Associate in General Studies

The Associate in General Studies (AGS) degree provides students the ability to explore a broad range of college-level courses to develop new skills or investigate a personal interest. Courses may transfer individually to a four-year university, but the degree as a whole is not designed for transfer or as an occupational degree. Students should work closely with an advisor to determine if the AGS is the right degree program to reach their individual goals. City Colleges of Chicago requires that the degree is inclusive of a minimum of 20 semester hours of General Education.

Code	Title	Hours
General Education ¹		
ENGLISH 101	Composition	3
Select 17 credit hours of at least three of the following disciplines: 17		
Mathematics		
Fine Arts & Humanities		
Social and Behavioral Sciences		
Physical Sciences & Life Sciences		
Degree Electives		
Select 40 credit hours		40
Total Hours		60

1

Students are required to take at least one general education course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate Degree.

Degree offered at: DA, KK, MX, OH, TR, HW, WR

Associate in Science

The Associate in Science (AS) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education. For students who already know they are interested in science, technology, engineering, or mathematics (the “STEM” fields), the Associate in Science degree, or even the Associate in Engineering Science (AES), is probably the one to pursue. This is also a transfer degree, and it is similar to the Associate in Arts. The main difference early-on concerns the selection of specific math and science courses, which will be different for students who want to major in a STEM field. Again, working closely with your advisor will ensure that you enroll in the right classes to achieve your goals.

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Science degree.

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Mathematics		6
Social and Behavioral Sciences		6
Fine Arts & Humanities ¹		6
Physical Sciences & Life Sciences ²		10
AS Electives		
Students should work with a College Advisor to select appropriate core and elective courses, or simply select an AS semester map as a guide.		23
Total Hours		60

1

At least one (1) of the courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

2

At least one (1) of the courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

Degree offered at: DA, KK, MX, OH, TR, HW, WR

General Education Core Curriculum

The General Education Core Curriculum (GECC) Credential is a 37 credit hour transfer credential intended for students interested in completing a distribution of courses designed to satisfy the first two years of a baccalaureate degree at most four-year colleges or universities. The GECC Credential is aligned to the Associate in Arts degree and focuses on the general education requirements required for transfer. The GECC Credential is comprised of courses approved through the Illinois Articulation Initiative and must be completed according the general education categories below:

Code	Title	Hours
Communications		9
Math		3

FineArts & Hum	9
Social & Behavioral Sciences	9
Physical & Life Sciences	7
Total Hours	37

Code	Title	Hours
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General Education

ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Select one Math course for a minimum of three credit hours:		3
MATH 118	General Education Math	
MATH 122	Math For Elementary Teachers II	
MATH 125	Introductory Statistics	
MATH 144	Finite Mathematics	
MATH 146	Discrete Mathematics	
MATH 204	Calculus For Business & Social Sciences	
MATH 207	Calculus & Analytic Geometry I	
MATH 208	Calculus & Analytic Geometry II	
MATH 209	Calculus & Analytic Geometry III	

Select three FineArts & Hum courses for a minimum of 9 credit hours of the following: ¹

AFRO AM 101	Introduction to African-American Studies	
ART 103	Art Appreciation	
ART 130	African-American Art	
CHINESE 104	Chinese IV	
CMMEDIA 163	Film Rhetoric	
RELIGN 101	Introduction To Religion	
RELIGN 102	The Bible - Hebrew Old Test	
RELIGN 103	The Bible - New Testament	
RELIGN 104	Islamic Scriptures: The Qur'an	
RELIGN 106	Comparative Religion I/Eastern Religion	
RELIGN 107	Com Rel II Western Religion	
FIN ART 104	The World Of The Cinema	
FIN ART 105	History of Painting, Sculpture & Architecture	
FIN ART 107	History of Architecture, Painting & Sculpture I	
FIN ART 108	Hist Of Arch Paint Sculp II	
FIN ART 109	History Of Cinema	
FIN ART 110	Opera And The Humanities	
FIN ART 111	History of Photography	
FIN ART 112	Dance Appreciation	
FIN ART 114	Film History I	
FIN ART 115	Film History II	
FRENCH 104	Fourth Course French	
FRENCH 213	Intro To Modern Literature French	
FRENCH 214	Readings In Literature French	
HUM 123	Intro To Arts & Ideas	
HUM 143	Intro to Latin American/Latino Studies	
HUM 144	Introduction to Women's and Gender Studies	
HUM 145	Intro to Diversity/Ethnic Studies	
HUM 146	Gay, Lesbian, Bisexual & Transgender	
HUM 201	General Course I Humanities	

HUM 202	General Course II Humanities
HUM 203	Arts of Contemporary America
HUM 205	World Literature I
HUM 207	The Great Books
HUM 208	Women In Creative-Performing Arts
HUM 209	Latinxs in Chicago
HUM 210	Comparative Mythology
HUM 212	Non-Western Humanities
HUM 215	The Art and Philosophy of the African Continent
ITALIAN 104	Fourth Course Italian
JAPANES 104	Fourth Course Japanese
LIT 110	Introduction To Literature
LIT 111	Poetry
LIT 112	Drama
LIT 113	Fiction
LIT 114	Ideas In Prose
LIT 115	Great Books Seminar/Topics Literature
LIT 116	American Literature from Colonial Days to Civil War
LIT 117	American Literature from the Civil War to the 20th Century
LIT 118	English Literature from its Beginnings to the Age of Johnson
LIT 119	English Literature from the Romantic Revival to the 20th Century
LIT 121	Contemporary African American Literature
LIT 122	Perspectives in Black Literature
LIT 123	Literature of the U.S. from the Civil War to the Present
LIT 126	Contemporary American Literature
LIT 127	Contemporary British Literature
LIT 128	Latin American Literature
LIT 129	U.S. Latino (a) Literature
LIT 130	Children's Literature
LIT 132	Native American Literature
LIT 137	The Black Woman In Black Fiction
LIT 150	Women's Literature
LIT 153	Gay and Lesbian Literature
LIT 155	Literature and Film
LIT 156	Creative Non-fiction
LIT 211	Shakespeare
LIT 220	World Literature
MUSIC 121	Introduction To Music
MUSIC 124	Trends In Mod Amer Music
MUSIC 183	World Music
MUSIC 221	Music Literature & History
PHIL 105	Logic
PHIL 106	Introduction To Philosophy
PHIL 107	Ethics
PHIL 108	Philosophy Of Religion
PHIL 110	Social/Political Philosophy
PHIL 201	Greek Philo To Renaissance
PHIL 202	Enlightenment To Present

PHIL 215	Problems In Philosophy
PHIL 216	Critical Thinking
POLISH 104	Fourth Course Polish
SPANISH 104	Fourth Course Spanish
SPANISH 111	Spanish For Hispanos
SPANISH 210	Modern Civilization & Culture Spanish
SPANISH 213	Intro To Modern Literature Spanish
SPANISH 214	Readings In Literature Spanish
THR ART 131	Intro To Theater
THR ART 134	Theater Diversity in the U.S.
Select three Social & Behavioral Science courses for a minimum of 9 credit hours of the following. ²	
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans
ANTHRO 202	Cultural Anthropology
ANTHRO 205	Applied Anthropology
ANTHRO 206	Introduction to Archaeology
ECON 201	Principles Of Economics I
ECON 202	Principles Of Economics II
GEOG 101	World Geography
GEOG 102	Economic Geography
HISTORY 111	History of American People To 1865
HISTORY 112	History of American People From 1865
HISTORY 114	The Afro-American In American History
HISTORY 141	History of World Civilization to 1500
HISTORY 142	Hist World Civiliz Frm 1500
HISTORY 215	History of Latin America
HISTORY 216	U.S. Latinx History
HISTORY 225	Modern Middle East History
HISTORY 243	The Far East in the Modern World
HISTORY 247	African History to Colonial Period
HISTORY 248	African History - Modern Period
POL SCI 200	Principles of Political Science
POL SCI 201	The National Government
POL SCI 203	Comparative Government
POL SCI 204	International Relations
POL SCI 207	U.S. State & Local Government
PSYCH 201	General Psychology
PSYCH 207	Child Psychology
PSYCH 211	Social Psychology
PSYCH 214	Adolescent Psychology
PSYCH 222	Adult Development And Aging
PSYCH 224	Life Span Developmental Psychology
SOC SCI 101	General Course I Social Science
SOC SCI 102	General Course II Social Science
SOC 201	Intro To the Study Of Society
SOC 203	Marriage And The Family
SOC 205	Social Problems
SOC 207	The Sociology Of Sex & Gender
SOC 211	Race & Ethnic Relations
SOC 241	Institutional Racism

Select two Physical & Life Sciences courses for a minimum of 7 credit hours of the following: ³		7
ASTROMY 201	Descriptive Astronomy	
BIOLOGY 109	Human Genetics & Evolution	
BIOLOGY 114	General Education Biology	
BIOLOGY 115	Human Biology	
BIOLOGY 119	Environmental Biology	
BIOLOGY 121	Biology I	
BIOLOGY 122	Biology II	
BOTANY 201	General Botany I	
CHEM 121	Basic Chemistry I	
CHEM 201	General Chemistry I	
ENVR ST 101	Man & Environment I	
ENVR TC 107	Environmental Geology	
GEOG 201	Physical Geography	
GEOLOGY 201	Physical Geology	
OCEAN 101	Intro To Oceanography	
PHY SCI 101	General Course Physical Science	
PHY SCI 102	General Course Physical Science	
PHY SCI 107	Current Public Issues in Physical Science	
PHY SCI 111	General Course I Physical Science	
PHY SCI 112	General Course II Physical Science	
PHY SCI 118	Introduction to Meteorology	
PHYSICS 221	Mechanics, Waves, and Heat	
PHYSICS 231	General Physics I: Mechanics & Wave Motion	
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	

Total Hours 37

1

At least one (1) of the courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

2

At least two (2) of the courses must be from different disciplines.

3

At least one (1) of the courses must be a lab course, at least one (1) of the courses must be a Life Science category course, and at least one (1) of the courses must be a Physical Science category course.

Program offered at: DA, KK, MX, OH, TR, HW, WR

ACADEMIC PROGRAM REQUIREMENTS

A

- A+ Certified Computer Technician, Basic Certificate (p. 19)
- Accounting Clerk, Basic Certificate (p. 20)
- Accounting, Advanced Certificate (p. 21)
- Accounting, Associate in Applied Science (p. 23)
- Accounting, Basic Certificate (p. 25)
- Addictions Studies, Advanced Certificate (p. 27)
- Addictions Studies, Associate in Applied Science (p. 28)
- Addictions Studies, Basic Certificate (p. 30)
- Advanced Social Services - Addictions Studies, Advanced Certificate (p. 31)
- Advanced Social Services - Addictions Studies, Associate in Applied Science (p. 33)
- Air Conditioning - Commercial Refrigeration, Basic Certificate (p. 35)
- Air Conditioning - Domestic Refrigeration, Basic Certificate (p. 36)
- Air Conditioning - Heating, Basic Certificate (p. 37)
- Air Conditioning and Refrigeration, Advanced Certificate (p. 38)
- Air Conditioning and Refrigeration, Associate in Applied Science (p. 39)
- Alternative Fuel Vehicle Technology, Basic Certificate (p. 41)
- Architectural Digital Media, Basic Certificate (p. 43)
- Architecture, Associate in Applied Science (p. 44)
- Architecture, Basic Certificate (p. 46)
- Art (Studio), Associate in Fine Arts (p. 47)
- Associate in Arts (p. 49)
- Associate in Engineering Science (p. 51)
- Associate in General Studies (p. 53)
- Associate in Science (p. 54)
- Automotive Body Reconstruction Technology, Basic Certificate (p. 56)
- Automotive Body Repainting Technology, Basic Certificate (p. 57)
- Automotive Chassis Maintenance, Basic Certificate (p. 58)
- Automotive Fuel Management Technology, Basic Certificate (p. 59)
- Automotive Maintenance, Basic Certificate (p. 60)
- Automotive Technology, Advanced Certificate (p. 61)
- Automotive Technology, Associate in Applied Science (p. 63)
- Automotive Technology, Basic Certificate (p. 67)
- Aviation Maintenance Technician - General, Basic Certificate (p. 68)

B

- Baking and Pastry Arts, Advanced Certificate (p. 69)
- Baking and Pastry Arts, Associate in Applied Science (p. 70)
- Baking and Pastry Arts, Basic Certificate (p. 72)
- Banking, Basic Certificate (p. 73)
- Bar Management, Associate in Applied Science (p. 74)
- Barbering, Advanced Certificate (p. 76)
- Barbering, Associate in Applied Science (p. 77)

- Bilingual Educator Endorsement, Basic Certificate (p. 79)
- Bilingual Teacher Aide, Associate in Applied Science (p. 81)
- Biotechnology, Associate in Applied Science (p. 82)
- BNA Fundamentals and Clinical, Basic Certificate (p. 83)
- Business Administration/General Business, Advanced Certificate (p. 84)

C

- Cannabis Dispensary Operations Specialist, Basic Certificate (p. 85)
- Chemical Laboratory Technology, Associate in Applied Science (p. 86)
- Child Development: Elementary Education, Advanced Certificate (p. 87)
- Child Development: Elementary Education, Associate in Applied Science (p. 88)
- Child Development: Pre-school Education Infant/Toddler, Advanced Certificate (p. 89)
- Child Development: Pre-school Education, Advanced Certificate (p. 91)
- Child Development: Pre-school Education, Associate in Applied Science (p. 93)
- Child Development: Pre-school Education, Basic Certificate (p. 95)
- Class C Driver Training, Basic Certificate (p. 96)
- CNC Engineering Technology, Advanced Certificate (p. 97)
- CNC Engineering Technology, Associate in Applied Science (p. 98)
- CNC Operations, Basic Certificate (p. 100)
- CNC Technology, Basic Certificate (p. 101)
- Collision Technology, Advanced Certificate (p. 102)
- Combination Welder, Basic Certificate (p. 103)
- Commercial Driver Training, Basic Certificate (p. 104)
- Commercial Passenger Driver: Class B, Basic Certificate (p. 105)
- Communication Design, Advanced Certificate (p. 106)
- Communication Design, Associate in Applied Science (p. 107)
- Communication Design: Print Design, Basic Certificate (p. 109)
- Communication Design: Web Page Design, Basic Certificate (p. 110)
- Communications Technology, Advanced Certificate (p. 111)
- Communications Technology, Associate in Applied Science (p. 112)
- Communications Technology, Basic Certificate (p. 114)
- Community Health Care Worker, Advanced Certificate (p. 115)
- Community Health Care Worker, Associate in Applied Science (p. 116)
- Community Health Care Worker, Basic Certificate (p. 117)
- Computer Information Systems, Advanced Certificate (p. 119)
- Computer Information Systems, Associate in Applied Science (p. 120)
- Computer Information Systems, Basic Certificate (p. 121)
- Computer Numeric Control Machining, Advanced Certificate (p. 122)
- Computer Numeric Control Machining, Basic Certificate (p. 124)
- Computer Numeric Control Technician, Basic Certificate (p. 125)

- Computer-Aided Drafting (CAD) Technology, Advanced Certificate (p. 126)
- Computer-Aided Drafting (CAD) Technology, Associate in Applied Science (p. 127)
- Computer-Aided Drafting (CAD) Technology, Basic Certificate (p. 129)
- Computer-Aided Drafting Engineering Technology, Advanced Certificate (p. 130)
- Computer-Aided Drafting Engineering Technology, Associate in Applied Science (p. 131)
- Construction Carpentry, Basic Certificate (p. 133)
- Construction Management, Associate in Applied Science (p. 134)
- Construction Masonry, Basic Certificate (p. 136)
- Cosmetology Teacher Training 1000-Hour Program, Basic Certificate (p. 138)
- Cosmetology Teacher Training 500-Hour Program, Basic Certificate (p. 139)
- Cosmetology, Advanced Certificate (p. 140)
- Cosmetology, Associate in Applied Science (p. 141)
- CPA Preparation—Post Baccalaureate, Advanced Certificate (p. 143)
- Criminal Justice: Private Police Services, Advanced Certificate (p. 145)
- Criminal Justice: Private Police Services, Basic Certificate (p. 146)
- Criminal Justice: Public Police Services, Advanced Certificate (p. 147)
- Criminal Justice: Public Police Services, Associate in Applied Science (p. 148)
- Criminal Justice: Public Police Services, Basic Certificate (p. 149)
- Culinary Arts, Advanced Certificate (p. 150)
- Culinary Arts, Associate in Applied Science (p. 152)
- Culinary Arts, Basic Certificate (p. 154)
- Cybersecurity, Advanced Certificate (p. 155)
- Cybersecurity, Associate in Applied Science (p. 157)
- Cybersecurity, Basic Certificate (p. 159)

D

- Dental Hygiene, Associate in Applied Science (p. 159)
- Diesel Technology, Advanced Certificate (p. 162)
- Diesel Technology, Associate in Applied Science (p. 164)
- Diesel Technology, Basic Certificate (p. 166)
- Digital Marketing and Social Media, Advanced Certificate (p. 167)
- Digital Multimedia Design, Advanced Certificate (p. 169)
- Digital Multimedia Design, Associate in Applied Science (p. 171)
- Digital Multimedia Design, Basic Certificate (p. 173)

E

- Early Childhood Special Education Endorsement, Basic Certificate (p. 174)
- Electrical Construction Technology, Advanced Certificate (p. 175)
- Electrical Construction Technology, Associate in Applied Science (p. 176)
- Electrical Construction Technology, Basic Certificate (p. 178)
- Emergency Medical Technician (EMT), Basic Certificate (p. 179)

- EMT-II Paramedic, Advanced Certificate (p. 180)
- EMT-II Paramedic, Associate in Applied Science (p. 182)
- English as a Second Language, Basic Certificate (p. 184)
- Environmental Technology, Associate in Applied Science (p. 186)
- Environmental Technology, Basic Certificate (p. 188)

F

- Factory Automation, Advanced Certificate (p. 189)
- Factory Automation, Basic Certificate (p. 190)
- Family Childcare Business, Basic Certificate (p. 191)
- Fire Science Management, Associate in Applied Science (p. 192)
- Fire Service Operations, Associate in Applied Science (p. 194)
- Food Sanitation, Basic Certificate (p. 196)
- Food Service Sanitation/Recertification, Basic Certificate (p. 197)
- Forklift Operation and Safety, Basic Certificate (p. 198)

G

- Game Design and Development, Associate in Applied Science (p. 199)
- Gas Utility Worker, Advanced Certificate (p. 201)
- General Education Core Curriculum (GECC) Credential (p. 203)
- Gerontology Aide, Basic Certificate (p. 206)
- Gerontology Specialist, Associate in Applied Science (p. 207)

H

- Health Information Technology, Associate in Applied Science (p. 208)
- Hospitality Management, Advanced Certificate (p. 210)
- Hospitality Management, Associate in Applied Science (p. 212)
- Human Development and Family Studies, Advanced Certificate (p. 214)
- Human Development and Family Studies, Associate in Applied Science (p. 215)
- Human Development and Family Studies, Basic Certificate (p. 217)
- Human Resources, Basic Certificate (p. 218)

I

- Industrial Supervision Engineering Technology, Advanced Certificate (p. 219)
- Industrial Supervision Engineering Technology, Associate in Applied Science (p. 220)
- Industrial Welding Technology, Basic Certificate (p. 222)
- Industrial Welding, Basic Certificate (p. 223)
- iOS and MacOS Development, Basic Certificate (p. 224)

L

- Learning Behavior Specialist 1, Basic Certificate (p. 225)
- Library Technical Assistant, Associate in Applied Science (p. 226)
- Library Technical Assistant, Basic Certificate (p. 227)

M

- Mammography, Basic Certificate (p. 228)
- Management/Marketing, Advanced Certificate (p. 230)

- Management/Marketing, Associate in Applied Science (p. 231)
- Management/Marketing, Basic Certificate (p. 229)
- Manufacturing Technology, Advanced Certificate (p. 234)
- Manufacturing Technology, Associate in Applied Science (p. 235)
- Manufacturing Technology, Basic Certificate (p. 233)
- Mechatronics Engineering Technology, Advanced Certificate (p. 237)
- Mechatronics Engineering Technology, Associate in Applied Science (p. 238)
- Media Communications, Associate in Applied Science (p. 240)
- Medical Assisting, Advanced Certificate (p. 243)
- Medical Billing, Basic Certificate (p. 245)
- Medical Coding, Advanced Certificate (p. 246)
- Mortuary Science, Associate in Applied Science (p. 247)
- Music Business, Basic Certificate (p. 251)
- Music Education, Associate in Fine Arts (p. 252)
- Music Performance, Associate in Fine Arts (p. 254)
- Music Technology, Basic Certificate (p. 256)

N

- Networking Systems and Technology, Advanced Certificate (p. 257)
- Networking Systems and Technology, Associate in Applied Science (p. 258)
- Networking Systems and Technology, Basic Certificate (p. 260)
- Nursing Home Administration, Basic Certificate (p. 261)
- Nursing, Associate in Applied Science (p. 262)

O

- Occupational Therapy Assistant, Associate in Applied Science (p. 264)
- Overhead Electrical Line Worker (p. 266)

P

- Paralegal, Associate in Applied Science (p. 267)
- Patient Care Technician, Basic Certificate (p. 269)
- Personal Fitness Trainer, Basic Certificate (p. 270)
- Pharmacy Technology, Advanced Certificate (p. 271)
- Phlebotomy, Basic Certificate (p. 273)
- Physical Therapist Assistant, Associate in Applied Science (p. 275)
- Plumbing and Fire Protection, Basic Certificate (p. 277)
- Practical Nursing, Advanced Certificate (p. 278)

Q

- Quality Assurance, Basic Certificate (p. 280)

R

- Racial Healing Practitioner, Basic Certificate (p. 281)
- Radiography, Associate in Applied Science (p. 283)
- Real Estate Broker Pre-Licensure, Basic Certificate (p. 286)
- Respiratory Care, Associate in Applied Science (p. 287)

S

- Safety for Process Technology, Basic Certificate (p. 290)
- School Age Childcare, Associate in Applied Science (p. 291)
- Social Work: Generalist, Advanced Certificate (p. 292)
- Social Work: Generalist, Associate in Applied Science (p. 293)
- Social Work: Youth Work, Advanced Certificate (p. 294)
- Social Work: Youth Work, Associate in Applied Science (p. 295)
- Software Development, Advanced Certificate (p. 296)
- Software Development, Associate in Applied Science (p. 298)
- Software Development, Basic Certificate (p. 301)
- Sterile Processing, Basic Certificate (<https://catalog.ccc.edu/academic-program-requirements/sterile-processing-basic-certificate/>)
- Supply Chain Management and Logistics, Advanced Certificate (p. 303)
- Supply Chain Management and Logistics, Associate in Applied Science (p. 304)
- Supply Chain Management and Logistics, Basic Certificate (p. 306)
- Surgical Technology, Associate in Applied Science (p. 307)
- Sustainable Urban Horticulture, Advanced Certificate (p. 309)

T

- Technology Specialist Endorsement, Basic Certificate (p. 311)

U

- Unarmed Security Guard, Basic Certificate (p. 312)

W

- Web Development, Advanced Certificate (p. 313)
- Web Development, Associate in Applied Science (p. 314)
- Web Development, Basic Certificate (p. 316)
- Welding Engineering Technology, Advanced Certificate (p. 317)
- Welding Engineering Technology, Associate in Applied Science (p. 318)
- Welding, Basic Certificate (p. 320)

A+ Certified Computer Technician, Basic Certificate

College(s): DA*

Program Code: 0806

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other IT offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
STBPS 240	Introduction To Pc Hardware	1
STBPS 241	Pc Repair & Troubleshooting	2.5
STBPS 242	PC Operating Systems	2.5
Total Hours		6

Accounting Clerk, Basic Certificate



College(s): HW

Program Code: 0424

The Accounting Clerk Basic Certificate will prepare individuals to provide high-tech administrative support to professional accountants, financial managers, and business owners. The program will provide students with opportunities to develop basic skills in preparation for employment in modern, technology-driven offices in many entities, governments, schools, profit and non-profit organizations, and self-employment occupations.

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 183	Payroll Accounting	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 250	Computerized Accounting Systems	3
BUSINES 284	Business Communications	3
Program Electives		
Select a minimum of 3 credits of the following:		3
BUSINES 203	Intro Cost Accounting	
BUSINES 208	Federal Income Tax	
BUSINES 211	Business Law I	
BUSINES 214	The Legal & Social Environment of Business	
BUSINES 215	Corporate and Entity Federal Income Tax	
BUSINES 217	Nonprofit Accounting	
Total Hours		26

Pathway

This is an **example course sequence** for students interested in pursuing Accounting Clerk. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 284	Business Communications	3
		Hours
		13
Semester 2		
BUSINES 182	Managerial Accounting	4
BUSINES 183	Payroll Accounting	3
BUSINES 250	Computerized Accounting Systems	3
Select one of the following Electives:		3
BUSINES 203	Intro Cost Accounting	
BUSINES 208	Federal Income Tax	
BUSINES 211	Business Law I	
BUSINES 214	The Legal & Social Environment of Business	
BUSINES 215	Corporate and Entity Federal Income Tax	
BUSINES 217	Nonprofit Accounting	
		Hours
		13
Total Hours		26

Choose your courses with your College Advisor.

Accounting, Advanced Certificate



College(s): DA, HW, KK*, OH, TR, WR

Program Code: 0003

**Beginning Summer 2016, this program is no longer accepting new students at KK. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 204	Computer Applications Intermediate Accounting	1
BUSINES 205	Intermediate Accounting	3
BUSINES 208	Federal Income Tax	3
BUSINES 241	Introduction To Finance	3
Program Electives		
Select a minimum of 9 credit hours from the following courses or others as recommended by a College Advisor:		9
BUSINES 141	Business Mathematics	
BUSINES 203	Intro Cost Accounting	
BUSINES 206	Auditing	
BUSINES 211	Business Law I	
BUSINES 250	Computerized Accounting Systems	
CIS 120	Introduction to Computer Applications	
CIS 123	Microcomputer Spreadsheets	
CIS 145	Database Management	
CIS 158	Web Development I	
Total Hours		30

Pathway

This is an **example course sequence** for students interested in earning a degree in Accounting. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Accounting.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
CIS 120	Introduction to Computer Applications	3
BUSINES 181	Financial Accounting	4
		Hours
		10
Semester 2		
BUSINES 182	Managerial Accounting	4
BUSINES 241	Introduction To Finance	3
CIS 123	Microcomputer Spreadsheets ¹	3
		Hours
		10
Semester 3		
BUSINES 204	Computer Applications Intermediate Accounting	1
BUSINES 205	Intermediate Accounting	3
BUSINES 208	Federal Income Tax	3
BUSINES 250	Computerized Accounting Systems	3
		Hours
		10
Total Hours		30

¹
Program Elective (p. 22)

Advanced Certificate Electives

Code	Title	Hours
BUSINES 141	Business Mathematics	3
BUSINES 203	Intro Cost Accounting	3
BUSINES 206	Auditing	3
BUSINES 211	Business Law I	3
BUSINES 250	Computerized Accounting Systems	3
CIS 120	Introduction to Computer Applications	3
CIS 123	Microcomputer Spreadsheets	3
CIS 145	Database Management	3
CIS 158	Web Development I	3

Choose your courses with your College Advisor.

Accounting, Associate in Applied Science



College(s): DA, HW, KK*, OH, TR, WR

Program Code: 0001

**Beginning Summer 2016, this program is no longer accepting new students at KK. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

The Associate in Applied Science degree program in Accounting is the study of basic accounting skills. Completion of the program can lead to various levels of accounting positions in accounting firms, retail stores, manufacturing, service business, and small business employment as a junior member of an accounting staff, estimator, credit analyst, budget or general accountant, bank teller, and accounts receivable or accounts payable clerk.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 204	Computer Applications Intermediate Accounting	1
BUSINES 205	Intermediate Accounting	3
BUSINES 206	Auditing	3
BUSINES 208	Federal Income Tax	3
BUSINES 211	Business Law I	3
	or BUSINES 211 The Legal & Social Environment of Business	
BUSINES 241	Introduction To Finance	3
BUSINES 250	Computerized Accounting Systems	3

Select one of the following: 3

BUSINES 141	Business Mathematics	
MATH 118	General Education Math (Or higher)	
CIS 120	Introduction to Computer Applications	3

Program Electives

Select a minimum of 9 credit hours from the following courses or others as recommended by a College Advisor: 9

BUSINES 203	Intro Cost Accounting	
CIS 123	Microcomputer Spreadsheets	
CIS 145	Database Management	
CIS 158	Web Development I	

Total Hours 60

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Accounting. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science Degree (AAS) in Accounting (A). One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
Select one of the following:		3-4
BUSINES 141	Business Mathematics	
MATH 118	General Education Math (Or higher)	
CIS 120	Introduction to Computer Applications	3
ENGLISH 101	Composition ¹	3
BUSINES 181	Financial Accounting	4
Hours		16-17
Semester 2		
BUSINES 182	Managerial Accounting	4
BUSINES 211 or BUSINES 214	Business Law I or The Legal & Social Environment of Business	3
BUSINES 241	Introduction To Finance	3
CIS 123	Microcomputer Spreadsheets ²	3
ECON 201	Principles Of Economics I ¹	3
Hours		16
Semester 3		
BUSINES 204	Computer Applications Intermediate Accounting	1
BUSINES 205	Intermediate Accounting	3
BUSINES 208	Federal Income Tax	3
BUSINES 250	Computerized Accounting Systems	3
Fine Arts & Humanities course (HD) ¹		3
Select one of the following: ¹		4-5
MATH 125	Introductory Statistics	
MATH 140	College Algebra	
MATH 144	Finite Mathematics	
MATH 204	Calculus For Business & Social Sciences	
Hours		17-18
Semester 4		
BUSINES 206	Auditing	3
ECON 202	Principles Of Economics II ¹	3
BUSINES 203	Intro Cost Accounting ²	3
CIS 145 or CIS 158	Database Management ² or Web Development I	3
Hours		12
Total Hours		61-63

1

General Education Requirement

2

Program Elective (p. 24)

Program Elective Associate in Applied Science Electives

Code	Title	Hours
CIS 203	Advanced Basic Programming	3
CIS 123	Microcomputer Spreadsheets	3
CIS 145	Database Management	3
CIS 158	Web Development I	3

Choose your courses with your College Advisor.

Accounting, Basic Certificate



College(s): DA, HW, KK*, OH, TR, WR

Program Code: 0002

**Beginning Summer 2016, this program is no longer accepting new students at KK. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
Select a minimum of 9 credit hours of the following:		9
BUSINES 111	Introduction To Business	
BUSINES 141	Business Mathematics	
BUSINES 203	Intro Cost Accounting	
BUSINES 204	Computer Applications Intermediate Accounting	
BUSINES 205	Intermediate Accounting	
BUSINES 206	Auditing	
BUSINES 208	Federal Income Tax	
BUSINES 211	Business Law I	
BUSINES 250	Computerized Accounting Systems	
CIS 120	Introduction to Computer Applications	
CIS 123	Microcomputer Spreadsheets	
CIS 145	Database Management	
CIS 158	Web Development I	
Total Hours		17

Pathway

This is an **example course sequence** for students interested in earning a degree in Accounting. It does not represent a contract, nor does it

guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Accounting.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
CIS 120	Introduction to Computer Applications	3
BUSINES 181	Financial Accounting	4
		Hours
		10
Semester 2		
BUSINES 182	Managerial Accounting	4
CIS 123	Microcomputer Spreadsheets ¹	3
		Hours
		7
Total Hours		17

1

Program Elective (p. 25)

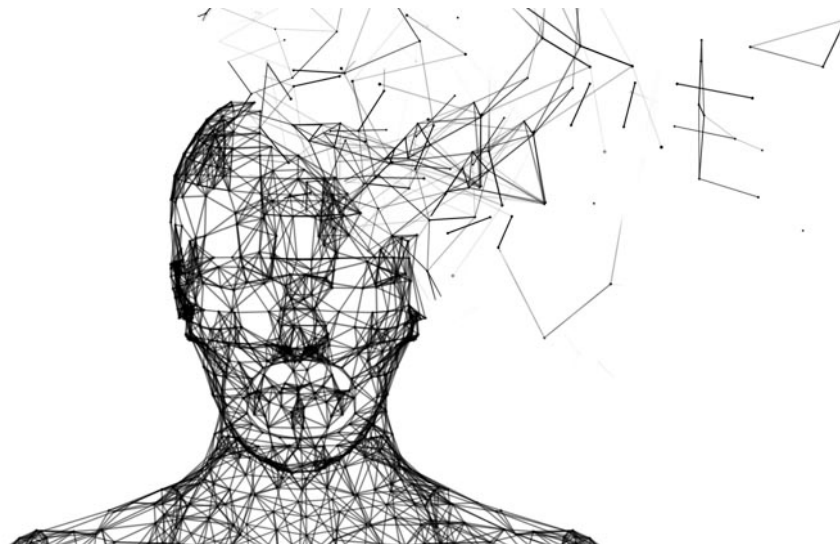
Basic Certificate Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
BUSINES 141	Business Mathematics	3
BUSINES 203	Intro Cost Accounting	3
BUSINES 204	Computer Applications Intermediate Accounting	1
BUSINES 205	Intermediate Accounting	3
BUSINES 206	Auditing	3
BUSINES 211	Business Law I	3
BUSINES 208	Federal Income Tax	3
BUSINES 250	Computerized Accounting Systems	3
CIS 120	Introduction to Computer Applications	3

CIS 123	Microcomputer Spreadsheets	3
CIS 145	Database Management	3
CIS 158	Web Development I	3

Choose your courses with your College Advisor.

Addictions Studies, Advanced Certificate



College(s): HW*, KK

Program Code: 0343

**Beginning Summer 2016, this program is no longer accepting new students at Harold Washington. Please refer to the Addictions Studies program at Kennedy-King.*

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 224	Principles and Practices of Addiction Studies	3
MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 231	Addictions Treatment of Special Populations	3
SOC SER 101	Introduction To Social Work	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3
Required Work-Based Learning Courses		
MENHLTH 229	Practicum In Addictions Treatment	6
Total Hours		37

Pathway

This is an **example course sequence** for students interested in Addictions Studies. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) in Addictions Studies.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MENHLTH 223	Intro To Addictions Studies	3
SOC SER 101	Introduction To Social Work	3
Hours		6
Semester 2		
CHLD DV 101	Human Growth & Development I	4
MENHLTH 224	Principles and Practices of Addiction Studies	3
SOC SER 109	Report Writing for Social Service Aides	3
Hours		10
Semester 3		
CHLD DV 102	Human Growth & Development II	3
MENHLTH 230	Addictions & Family Treatment	3
Hours		6
Semester 4		
SOC SER 201	Principles of Social Work Practice	3
MENHLTH 231	Addictions Treatment of Special Populations	3
SOC SER 212	Intro To Group Process	3
Hours		9
Semester 5		
MENHLTH 229	Practicum In Addictions Treatment	6
Hours		6
Total Hours		37

Choose your courses with your College Advisor.

Addictions Studies, Associate in Applied Science



College(s): HW*, KK

Program Code: 0344

**Beginning Summer 2016, this program is no longer accepting new students at Harold Washington. Please refer to the Addictions Studies program at Kennedy-King.*

The Associate in Applied Science degree program in Addictions Studies is ideal for prospective mental health practitioners or those already working in the field who wish to receive training and credentials in Addictions Studies. Many Addictions Studies practitioners find employment in medical and non-medical detoxification centers, rehabilitation programs, community mental health centers and family service centers, halfway houses, therapeutic communities, business, or industry. Some combine counseling with such primary professions as nursing, social work, school guidance counseling, or the clergy.

The program is accredited by the Illinois Alcoholism and Other Drug Abuse Professional Certification Association (IAODAPCA).

Program Requirements

Code	Title	Hours
General Education Coursework		
	Communications course	3
	Fine Arts & Humanities course	3
	Social and Behavioral Sciences course	3
	Physical Sciences or Life Sciences course	3
	Mathematics course	3
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 224	Principles and Practices of Addiction Studies	3

MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 231	Addictions Treatment of Special Populations	3
PSYCH 201	General Psychology	3
PSYCH 213	Abnormal Psychology	3
SOC SER 101	Introduction To Social Work	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3

Required Work-Based Learning Courses

MENHLTH 229	Practicum In Addictions Treatment	6
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Program Electives

Students must take 6 credit hours of electives. Courses in such fields as Education, Gerontology, Nursing, Psychology, Sociology, and Speech/Communications are valuable to primary studies in alcoholism and substance abuse. Students should meet with a College Advisor for selection of elective courses.

Total Hours	64
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At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in Addictions Studies. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science degree (AAS) in Addictions Studies. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MENHLTH 223	Intro To Addictions Studies	3
SOC SER 101	Introduction To Social Work	3
Fine Arts & Humanities course ¹		3
Mathematics course ¹		3
Hours		15
Semester 2		
CHLD DV 101	Human Growth & Development I	4
MENHLTH 224	Principles and Practices of Addiction Studies	3
PSYCH 201	General Psychology	3
SOC SER 109	Report Writing for Social Service Aides	3
Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 3		
CHLD DV 102	Human Growth & Development II	3
PSYCH 213	Abnormal Psychology	3
MENHLTH 230	Addictions & Family Treatment	3
Physical Sciences or Life Sciences course ¹		3
Program Elective ²		3
Hours		15
Semester 4		
SOC SER 201	Principles of Social Work Practice	3
MENHLTH 231	Addictions Treatment of Special Populations	3
Program Elective ²		3
SOC SER 212	Intro To Group Process	3
Hours		12
Semester 5		
MENHLTH 229	Practicum In Addictions Treatment	6
Hours		6
Total Hours		64

¹

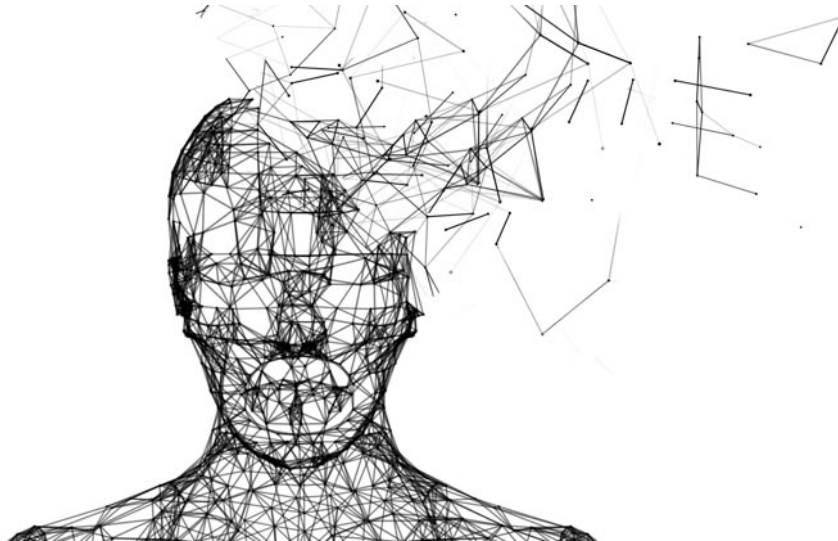
General Education Requirement

²

Students must take 6 credit hours of electives. Courses in such fields as Education, Gerontology, Nursing, Psychology, Sociology, and Speech/Communications are valuable to primary studies in alcoholism and substance abuse. Students should meet with a College Advisor for selection of elective courses.

Choose your courses with your College Advisor.

Addictions Studies, Basic Certificate



College(s): HW*, KK, WR*

Program Code: 0345

**As of Summer 2016, this program is not currently accepting new students at Harold Washington College. As of Spring 2022, this program is no longer accepting new students at Wright College. Please refer to the Addictions Studies program at Kennedy-King College.*

This Basic Certificate program in Addictions Studies provides students with the academic requirements needed in the application for the Certified Alcohol and Other Drugs Counselor (CADC) examination.

Program Requirements

Code	Title	Hours
Required Program Core		
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 224	Principles and Practices of Addiction Studies	3
MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 231	Addictions Treatment of Special Populations	3
Required Work-Based Learning Courses		
MENHLTH 229	Practicum In Addictions Treatment	6
Total Hours		18

Course	Title	Hours
Semester 1		
MENHLTH 223	Intro To Addictions Studies	3
Hours		3
Semester 2		
MENHLTH 224	Principles and Practices of Addiction Studies	3
Hours		3
Semester 3		
MENHLTH 230	Addictions & Family Treatment	3
Hours		3
Semester 4		
MENHLTH 231	Addictions Treatment of Special Populations	3
Hours		3
Semester 5		
MENHLTH 229	Practicum In Addictions Treatment	6
Hours		6
Total Hours		18

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in Addictions Studies. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Addictions Studies.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Advanced Social Services - Addictions Studies, Advanced Certificate



College(s): KK

Program Code: 0411

The Advanced Social Services–Addiction Studies certificate is ideal for prospective mental health practitioners or those already working in the field who wish to receive training and credentials in Social Services–Addiction Studies. Career possibilities include counselors, social workers, probation officers and correctional treatment specialists, and substance abuse and behavioral disorder counselors.

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 228	Methodology For Social Work	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 224	Principles and Practices of Addiction Studies	3
MENHLTH 228	Principles of Mental Health Practices	3
MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 231	Addictions Treatment of Special Populations	3
Required Work-Based Learning Courses		
SOC SER 229	Social Service Practicum	6
SOC SER 230	Domestic Violence Practicum	3
MENHLTH 229	Practicum In Addictions Treatment	6
Total Hours		49

Pathway

This is an example course sequence for students interested in earning an advanced certificate in Social Services–Addiction Studies. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate in Advanced Social Services–Addiction Studies which may include a Domestic Violence and/or Anger Management/Conflict Resolution Certification.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MENHLTH 223	Intro To Addictions Studies	3
SOC SER 215	Social Prob & Soc Action I	3
CHLD DV 101	Human Growth & Development I	4
		Hours
		10
Semester 2		
MENHLTH 224	Principles and Practices of Addiction Studies	3
SOC SER 212	Intro To Group Process	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 109	Report Writing for Social Service Aides	3
		Hours
		12
Semester 3		
MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 228	Principles of Mental Health Practices	3
		Hours
		6
Semester 4		
SOC SER 228	Methodology For Social Work	3
MENHLTH 231	Addictions Treatment of Special Populations	3

SOC SER 229	Social Service Practicum	6
	Hours	12
Semester 5		
MENHLTH 229	Practicum In Addictions Treatment	6
SOC SER 230	Domestic Violence Practicum	3
	Hours	9
	Total Hours	49

Choose your courses with your College Advisor.

Advanced Social Services - Addictions Studies, Associate in Applied Science



College(s): KK

Program Code: 0410

The AAS degree in Advanced Social Services–Addictions Studies is ideal for prospective mental health practitioners, or those already working in the field that wish to advance their knowledge in the core competencies of both addictions studies and social work. The program will focus on the generalist’s approach to counseling, training, and industry credentialing in addictions studies and social work, with emphasis on the practices of working with individuals, families, groups, and communities. Many mental health/social work practitioners find employment in medical and non-medical detoxification centers, rehabilitation programs, community mental health centers, family service centers, halfway house, hospitals, therapeutic communities, business, and other industries. Some mental health professionals combine counseling with such primary professions such as nursing, social work, school guidance counseling, or clergy.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
MATH 125	Introductory Statistics	3
	or BIOLOGY 10: Nutrition-Consumer Education	
PSYCH 201	General Psychology	3
	or SOC 201 Intro To the Study Of Society	
AFRO AM 101	Introduction to African-American Studies (HD)	3
	or HUM 212 Non-Western Humanities	
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3

SOC SER 101	Introduction To Social Work	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 228	Methodology For Social Work	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 224	Principles and Practices of Addiction Studies	3
MENHLTH 230	Addictions & Family Treatment	3
MENHLTH 231	Addictions Treatment of Special Populations	3
Required Work-Based Learning Courses		
SOC SER 229	Social Service Practicum	6
MENHLTH 229	Practicum In Addictions Treatment	6
Program Electives		
SOC SER 230	Domestic Violence Practicum	3
MENHLTH 228	Principles of Mental Health Practices	3
Total Hours		70

Pathway

This is an **example course sequence** for students interested in earning an Associate in Applied Science degree in Social Services–Addiction Studies. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate and Associate in Applied Science degree in Advanced Social Services–Addiction Studies which may include a Domestic Violence and/or Anger Management/Conflict Resolution Certification.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
SOC SER 101	Introduction To Social Work	3
MENHLTH 223	Intro To Addictions Studies	3
SOC SER 215	Social Prob & Soc Action I	3
CHLD DV 101	Human Growth & Development I	4
Hours		16
Semester 2		
MENHLTH 224	Principles and Practices of Addiction Studies	3
SOC SER 212	Intro To Group Process	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 109	Report Writing for Social Service Aides	3
ENGLISH 102	Composition ¹	3
Hours		15
Semester 3		
MENHLTH 230	Addictions & Family Treatment	3
CHLD DV 102	Human Growth & Development II	3
MENHLTH 228	Principles of Mental Health Practices ²	3
AFRO AM 101 or HUM 212	Introduction to African-American Studies (HD) ¹ or Non-Western Humanities	3
PSYCH 201 or SOC 201	General Psychology ¹ or Intro To the Study Of Society	3
Hours		15
Semester 4		
SOC SER 228	Methodology For Social Work	3
MENHLTH 231	Addictions Treatment of Special Populations	3
SOC SER 229	Social Service Practicum	6
MATH 125 or BIOLOGY 107	Introductory Statistics ¹ or Nutrition-Consumer Education	3
Hours		15
Semester 5		
MENHLTH 229	Practicum In Addictions Treatment	6
SOC SER 230	Domestic Violence Practicum ²	3
Hours		9
Total Hours		70

1

General Education Requirement

2

Program Elective

Choose your courses with your College Advisor.

Air Conditioning - Commercial Refrigeration, Basic Certificate



College(s): KK

Program Code: 0153

The Basic Certificate in Commercial Refrigeration studies the design, selection, maintenance, testing and installation of commercial refrigeration systems, and business skills.

Program Requirements

Code	Title	Hours
Required Program Core		
AIR CON 102	Intro Air Conditioning II	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 151	Commercial Refrigeration	3
AIR CON 157	Analysis Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
MATH 107	Math For Technicians I	4
Total Hours		17

Course	Title	Hours
Semester 1		
MATH 107	Math For Technicians I	4
		Hours
		4
Semester 2		
AIR CON 102	Intro Air Conditioning II	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 151	Commercial Refrigeration	3
		Hours
		9
Semester 3		
AIR CON 157	Analysis Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
		Hours
		4
		Total Hours
		17

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Commercial Refrigeration.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Air Conditioning - Domestic Refrigeration, Basic Certificate



College(s): KK

Program Code: 0177

The Basic Certificate in Domestic Refrigeration studies the design, selection, maintenance, testing and installation of residential refrigeration systems.

Program Requirements

Code	Title	Hours
Required Program Core		
AIR CON 101	Intro Air Conditioning I	3
AIR CON 102	Intro Air Conditioning II	3
AIR CON 120	Introductory Laboratory	2
AIR CON 150	Intro To Refrigeration	3
AIR CON 155	Refrigeration Laboratory	2
MATH 107	Math For Technicians I	4
Total Hours		17

AIR CON 150	Intro To Refrigeration	3
MATH 107	Math For Technicians I	4
Hours		12
Semester 2		
AIR CON 102	Intro Air Conditioning II	3
Hours		3
Semester 3		
AIR CON 155	Refrigeration Laboratory	2
Hours		2
Total Hours		17

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Domestic Refrigeration.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AIR CON 120	Introductory Laboratory	2
AIR CON 101	Intro Air Conditioning I	3

Air Conditioning - Heating, Basic Certificate



College(s): KK

Program Code: 0178

The Basic Certificate in Heating studies the design, selection, maintenance, testing and installation of residential, commercial Heating systems, and business skills.

Program Requirements

Code	Title	Hours
Required Program Core		
AIR CON 101	Intro Air Conditioning I	3
AIR CON 103	Duct Design And Layout	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 160	Intro to Principles of Heating	3
AIR CON 165	Heating Laboratory	2
MATH 107	Math For Technicians I	4
Total Hours		18

MATH 107	Math For Technicians I	4
	Hours	7
Semester 2		
AIR CON 105	Owner-Contractor Management	3
AIR CON 160	Intro to Principles of Heating	3
	Hours	6
Semester 3		
AIR CON 103	Duct Design And Layout	3
AIR CON 165	Heating Laboratory	2
	Hours	5
	Total Hours	18

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Heating.

Semester-by-Semester Program Plan for Full-Time Student

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AIR CON 101	Intro Air Conditioning I	3

Air Conditioning and Refrigeration, Advanced Certificate



College(s): KK

Program Code: 0118

The Advanced Certificate program in Air Conditioning and Refrigeration studies the design, selection, maintenance, testing and installation of residential and commercial air conditioning, refrigeration, heating, and ventilation systems with emphasis on business skills. No General Education or elective courses are required for this program.

Program Requirements

Code	Title	Hours
Required Program Core		
AIR CON 101	Intro Air Conditioning I	3
AIR CON 102	Intro Air Conditioning II	3
AIR CON 103	Duct Design And Layout	3
AIR CON 104	Equipment and Systems Controls	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 120	Introductory Laboratory	2
AIR CON 150	Intro To Refrigeration	3
AIR CON 151	Commercial Refrigeration	3
AIR CON 155	Refrigeration Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
AIR CON 160	Intro to Principles of Heating	3
AIR CON 165	Heating Laboratory	2
AIR CON 204	Advanced Control Systems	3
MATH 107	Math For Technicians I	4
Total Hours		39

Pathway

This is an example course sequence for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract,

nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificates (BCs) in Domestic Refrigeration and Heating and an Advanced Certificate (AC) in Air Conditioning and Refrigeration.

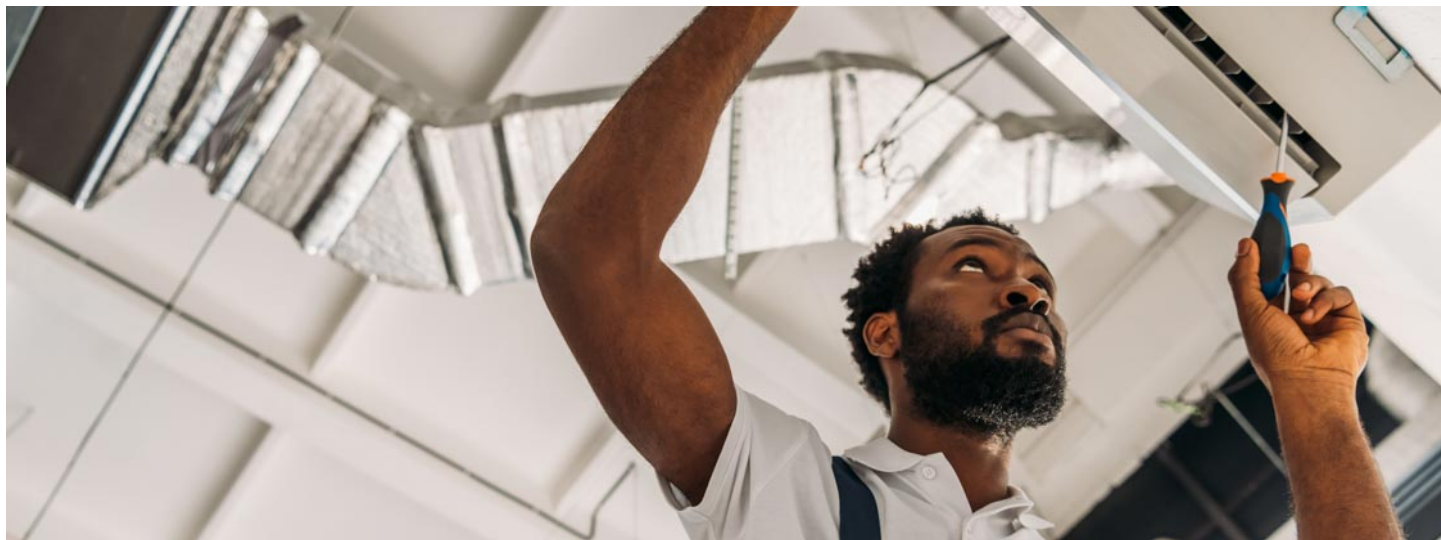
Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AIR CON 104	Equipment and Systems Controls	3
AIR CON 150	Intro To Refrigeration	3
AIR CON 160	Intro to Principles of Heating	3
MATH 107	Math For Technicians I	4
		Hours
		13
Semester 2		
AIR CON 101	Intro Air Conditioning I	3
AIR CON 102	Intro Air Conditioning II	3
AIR CON 120	Introductory Laboratory	2
AIR CON 151	Commercial Refrigeration	3
AIR CON 165	Heating Laboratory	2
		Hours
		13
Semester 3		
AIR CON 103	Duct Design And Layout	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 155	Refrigeration Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
AIR CON 204	Advanced Control Systems	3
		Hours
		13
		Total Hours
		39

Choose your courses with your College Advisor.

Air Conditioning and Refrigeration, Associate in Applied Science



College(s): KK

Program Code: 0117

The Associate in Applied Science degree in Air Conditioning and Refrigeration studies the design, selection, maintenance, testing and installation of residential and commercial air conditioning, refrigeration and heating and ventilation systems, and business skills. The degree can lead to self-employment or employment as an assistant to engineers in an industrial or business facility, air conditioning and refrigeration mechanic, furnace installer, oil burner mechanic or a gas furnace mechanic with cooling and heating dealers, contractors, or utility companies.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
AIR CON 101	Intro Air Conditioning I	3
AIR CON 102	Intro Air Conditioning II	3
AIR CON 103	Duct Design And Layout	3
AIR CON 104	Equipment and Systems Controls	3
AIR CON 105	Owner-Contractor Management	3
AIR CON 120	Introductory Laboratory	2
AIR CON 150	Intro To Refrigeration	3
AIR CON 151	Commercial Refrigeration	3
AIR CON 155	Refrigeration Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
AIR CON 160	Intro to Principles of Heating	3
AIR CON 165	Heating Laboratory	2
AIR CON 204	Advanced Control Systems	3

MATH 107	Math For Technicians I (or Advanced Mathematics course)	4
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Program Electives

Select a minimum of 7 credit hours of the following:		7
AIR CON 106	Sheet Metal I	
AIR CON 107	Welding I	
AIR CON 121	Advanced Laboratory	
AIR CON 156	Domestic Refrigeration Laboratory	

Total Hours	61
-------------	----

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BCs) in Commercial Refrigeration, Domestic Refrigeration, and Heating, and an Advanced Certificate and an Associate in Applied Science (AAS) degree in Air Conditioning and Refrigeration. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AIR CON 104	Equipment and Systems Controls	3
AIR CON 150	Intro To Refrigeration	3
AIR CON 160	Intro to Principles of Heating	3
MATH 107	Math For Technicians I	4
AIR CON 106 or AIR CON 107	Sheet Metal I ² or Welding I	3
Hours		16
Semester 2		
Mathematics or Life Sciences or Physical Sciences course ¹		3
ENGLISH 101	Composition ¹	3
AIR CON 101	Intro Air Conditioning I	3
AIR CON 102	Intro Air Conditioning II	3
AIR CON 151	Commercial Refrigeration	3
AIR CON 165	Heating Laboratory	2
Hours		17
Semester 3		
AIR CON 103	Duct Design And Layout	3
AIR CON 120	Introductory Laboratory	2
AIR CON 204	Advanced Control Systems	3
Social and Behavioral Sciences course (HD) ¹		3
AIR CON 107 or AIR CON 121	Welding I ² or Advanced Laboratory	2-3
Hours		13-14
Semester 4		
Fine Arts & Humanities course ¹		3
Social and Behavioral Sciences course (HD) ¹		3
AIR CON 105	Owner-Contractor Management	3
AIR CON 155	Refrigeration Laboratory	2
AIR CON 158	Commercial Refrigeration Laboratory	2
AIR CON 107 or AIR CON 121	Welding I ² or Advanced Laboratory	2-3
Hours		15-16
Total Hours		61-63

1

General Education Requirements

2

Program Elective (p. 40) (minimum 7 hours total)

Program ElectivesS

Associate in Applied Science Electives

Code	Title	Hours
AIR CON 106	Sheet Metal I	3
AIR CON 107	Welding I	3
AIR CON 121	Advanced Laboratory	2
AIR CON 156	Domestic Refrigeration Laboratory	2

Choose your courses with your College Advisor.

Alternative Fuel Vehicle Technology, Basic Certificate



College(s): KK, OH

Program Code: 0099

The AFVT Program has been designed to prepare students to apply their skills and knowledge to correctly diagnose and repair alternative fuel vehicles such as hybrid power units in accordance with manufacturer's specifications. The AFVT program will also give emergency response, auto insurance and salvage yard personnel working knowledge to safely perform their tasks when working on or inspecting hybrid fuel vehicles. This program will also prepare automotive technicians and instructors to sit for the Automotive Service Excellence (ASE) Advanced Engine Performance examination.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 130	Topics in Alternative Fuel Technology	3
AUTOTEC 230	Introduction to Alternative Fuel Technology	4
AUTOTEC 231	AFT Hybrid Fuel Vehicles	4
AUTOTEC 232	Hybrid and Fuel Cell Vehicles	5
Total Hours		16

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Alternative Fuel Vehicle Technology (AFVT). It

does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn ¹	4
AUTOTEC 104	Electrical Systems & Power Accessories ¹	4
		Hours
		8
Semester 2		
AUTOTEC 105	Fuel Management I ¹	4
AUTOTEC 204	Electrical Systems II ¹	4
		Hours
		8
Semester 3		
AUTOTEC 205	Fuel Management II ¹	4
		Hours
		4
Semester 4		
AUTOTEC 206	Fuel Management III ¹	4
		Hours
		4
Semester 5		
AUTOTEC 130	Topics in Alternative Fuel Technology	3
AUTOTEC 230	Introduction to Alternative Fuel Technology	4
AUTOTEC 231	AFT Hybrid Fuel Vehicles	4

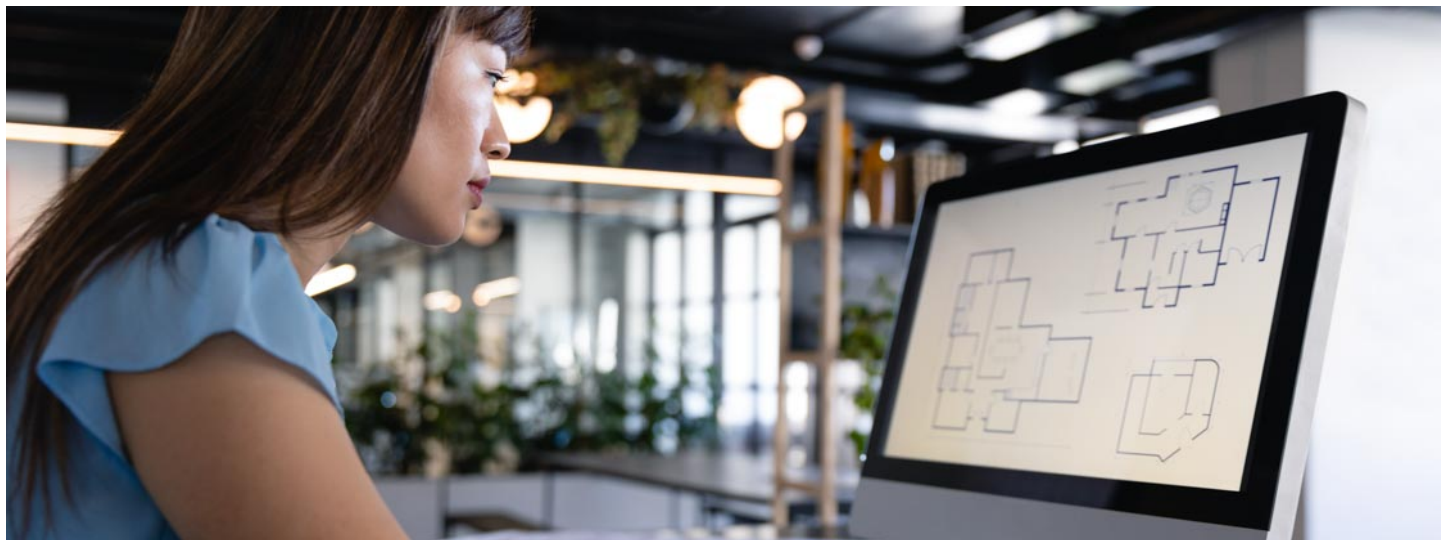
AUTOTEC 232	Hybrid and Fuel Cell Vehicles	5
	Hours	16
	Total Hours	40

1

Program Prerequisite

Choose your courses with your College Advisor.

Architectural Digital Media, Basic Certificate



College(s): HW, WR*

Program Code: 0132

**As of Spring 2021, this program is no longer accepting new students at Wright College.*

Prepare detailed drawings of architectural designs and plans for buildings and structures according to specifications provided by architect.



Course	Title	Hours
Semester 1		
ARCHITC 170	Digital Lab I	3
		Hours
		3
Semester 2		
ARCHITC 171	Digital Lab II	3
ARCHITC 172	Digital Lab III	3
		Hours
		6
		Total Hours
		9

Choose your courses with your College Advisor.

Program Requirements

Code	Title	Hours
Required Program Core		
ARCHITC 170	Digital Lab I	3
ARCHITC 171	Digital Lab II	3
ARCHITC 172	Digital Lab III	3
Total Hours		9

Pathway

This is an **example course sequence** for students interested in earning a certificate in Architectural Digital Media. If this pathway is followed as outlined, you will earn a Basic Certificate (BC). It does not represent a contract, nor does it guarantee course availability.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Architecture, Associate in Applied Science



College(s): HW, WR*

Program Code: 0122

**As of Spring 2021, this program is no longer accepting new students at Wright College.*

The Associate in Applied Science degree in Architecture prepares students for employment as a draftsman or detailer with an architecture or design firm or as a contractor, material supplier or with a construction company. Completion of the degree also leads to the further study of architecture and related fields at several transfer destinations.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Mathematics/Physical Sciences/Life Sciences		3
Humanities ¹		3
Social and Behavioral Sciences		3
ARCHITC 104	History Of Architecture I	3
Required Program Core		
ARCHITC 105	History Of Architecture II	3
ARCHITC 110	Architectural Sketching	2
ARCHITC 121	Basic Design Studio	4
ARCHITC 122	Intermediate Design Studio	4
ARCHITC 123	Advanced Design Studio	4
ARCHITC 166	Architectural Design I	4
ARCHITC 170	Digital Lab I	3
ARCHITC 171	Digital Lab II	3
ARCHITC 172	Digital Lab III	3

ARCHITC 202	Construction I	4
ARCHITC 204	Construction II	4
ARCHITC 220	Portfolio Development	2
ARCHITC 266	Architectural Design II	4
Select a minimum of 5 credit hours of the following:		5
MATH 140 & MATH 141	College Algebra and Plane Trigonometry	
MATH 143	Pre Calculus	
MATH 204	Calculus For Business & Social Sciences	
MATH 207	Calculus & Analytic Geometry I	

Program Electives

Select one of the following:		3
ARCHITC 230	Structural Fundamentals	
General Education Elective		

Total Hours	67
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1

Course must have an IAI GECC code (p. 433) beginning with H or HF

Pathway

This is an **example course sequence** for students interested in pursuing Architecture. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate in Architectural Digital Media, a Basic Certificate in Architecture and an Associate in Applied Science degree in Architecture. One course must satisfy the Human Diversity (HD) requirement.

Semester-by-Semester Program Plan for Full-Time Students at Harold Washington College

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ARCHITC 121	Basic Design Studio	4
ARCHITC 170	Digital Lab I	3
ARCHITC 110	Architectural Sketching	2
ENGLISH 101	Composition ¹	3
MATH 140	College Algebra	4
Hours		16
Semester 2		
ARCHITC 122	Intermediate Design Studio	4
ARCHITC 166	Architectural Design I	4
ARCHITC 171	Digital Lab II	3
MATH 141	Plane Trigonometry	3
Social and Behavioral Sciences course ^{1,2}		3
Hours		17
Semester 3		
ARCHITC 104	History Of Architecture I ¹	3
ARCHITC 123	Advanced Design Studio	4
ARCHITC 172	Digital Lab III	3
ARCHITC 202	Construction I	4
Mathematics/Physical Sciences/Life Sciences course ^{1,2}		3-5
Hours		17-19
Semester 4		
ARCHITC 105	History Of Architecture II	3
ARCHITC 220	Portfolio Development	2
ARCHITC 204	Construction II	4
ARCHITC 266	Architectural Design II	4
Fine Arts & Humanities courses ^{1,2}		3
Select one of the following: ³		3
ARCHITC 230	Structural Fundamentals	
General Education course ²		
Hours		19
Total Hours		69-71

1
General Education Requirement

2
Confer with intended transfer destination

3
Program Elective

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students at Wright College

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ARCHITC 121	Basic Design Studio	4
ARCHITC 170	Digital Lab I	3
ARCHITC 110	Architectural Sketching	2
ENGLISH 101	Composition ¹	3

Social and Behavioral Sciences course ¹		3
Hours		15
Semester 2		
ARCHITC 122	Intermediate Design Studio	4
ARCHITC 166	Architectural Design I	4
ARCHITC 171	Digital Lab II	3
MATH 143	Pre Calculus	6
Hours		17
Semester 3		
ARCHITC 104	History Of Architecture I ¹	3
ARCHITC 123	Advanced Design Studio	4
ARCHITC 172	Digital Lab III	3
ARCHITC 202	Construction I	4
Mathematics/Physical Sciences/Life Sciences course ^{1,2}		3-5
Hours		17-19
Semester 4		
ARCHITC 105	History Of Architecture II	3
ARCHITC 220	Portfolio Development	2
ARCHITC 204	Construction II	4
ARCHITC 266	Architectural Design II	4
Fine Arts & Humanities courses ^{1,2}		3
Select one of the following: ³		3
ARCHITC 230	Structural Fundamentals	
General Education course ²		
Hours		19
Total Hours		68-70

1
General Education Requirement

2
Confer with intended transfer destination

3
Program Elective

Choose your courses with your College Advisor.

Architecture, Basic Certificate



College(s): HW, WR*

Program Code: 0124

**As of Spring 2021, this program is no longer accepting new students at Wright College.*

Architecture, BC

ARCHITC 121	Basic Design Studio	4
ARCHITC 170	Digital Lab I	3
Hours		9
Semester 2		
ARCHITC 122	Intermediate Design Studio	4
ARCHITC 166	Architectural Design I	4
ARCHITC 171	Digital Lab II	3
Hours		11
Total Hours		20

Program Requirements

Code	Title	Hours
Required Program Core		
ARCHITC 110	Architectural Sketching	2
ARCHITC 121	Basic Design Studio	4
ARCHITC 122	Intermediate Design Studio	4
ARCHITC 166	Architectural Design I	4
ARCHITC 170	Digital Lab I	3
ARCHITC 171	Digital Lab II	3
Total Hours		20

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Architecture. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate in Architecture.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ARCHITC 110	Architectural Sketching	2

Art (Studio), Associate in Fine Arts



College(s): HW, TR, WR

Program Code: 0216

The Art (Studio) AFA degree offers courses required for transfer to a four-year institution for students majoring in art (studio). Completion of the AFA degree does not fulfill the requirements of the Illinois Transferable General Education Core Curriculum (IAI GECC). A student must complete the general education requirements of the college or university to which they transfer.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math	4
	or MATH 125 Introductory Statistics	
Two Physical Sciences & Life Sciences courses ¹		6
Two Social and Behavioral Sciences courses ²		6
Two Fine Arts & Humanities courses ^{2,3}		6
Required Program Core		
ART 131	General Drawing	3
ART 132	Advanced General Drawing	3
ART 142	Figure Draw & Composition	3
ART 144	Two Dimensional Design	3
ART 145	Three Dimensional Design	3
FIN ART 107	History of Architecture, Painting & Sculpture I	3
FIN ART 108	Hist Of Arch Paint Sculp II	3
Program Electives		
Select a minimum of 9 credit hours of the following:		9
ART 113	Beginning Digital Photography	
ART 115	Beginning Darkroom Photography	

ART 116	Intermediate Black and White Photography	
ART 117	Beginning Color Photography	
ART 126	Printmaking I	
ART 127	Printmaking II	
ART 143	Advanced Figure Drawing	
ART 163	Water Color Painting	
ART 166	Oil Painting Techniques	
ART 167	Advanced Oil Painting Techniques	
ART 196	Ceramics	
ART 197	Advanced Ceramics & Sculpture	
ART 198	Sculpture I	
ART 213	Intermediate Digital Photography	
ART 275	Computer Art And Applications	
Total Hours		61

1

Minimum one course each in Physical & Life Sciences; one course must be a lab.

2

One course from Social and Behavioral Sciences or Fine Arts and Humanities must fulfill the Human Diversity (HD) requirement.

3

One course must fulfil the Humanities or Interdisciplinary Humanities GECC requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Studio Art. If this pathway is followed as outlined, you will earn an Associate in Fine Arts degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Courses may be substituted within the indicated categories (except Communications courses).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

ART 213	Intermediate Digital Photography	3
ART 275	Computer Art And Applications	3

Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
ART 144	Two Dimensional Design	3
ART 145	Three Dimensional Design	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
ART 103	Art Appreciation ¹	3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
Art (Studio) recommended elective (p. 48) ²		3
Physical Sciences course - no Lab ¹		3
FIN ART 107	History of Architecture, Painting & Sculpture I	3
ART 131	General Drawing	3
Hours		15
Semester 3		
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Life Sciences course with lab ¹		4
Social and Behavioral Sciences course ¹		3
ART 132	Advanced General Drawing	3
ART 142	Figure Draw & Composition	3
Hours		17
Semester 4		
Social and Behavioral Sciences course (HD) ¹		3
Fine Arts & Humanities course ¹		3
Art (Studio) recommended elective (p. 48) ²		3
Art (Studio) recommended elective (p. 48) ²		3
FIN ART 108	Hist Of Arch Paint Sculp II	3
Hours		15
Total Hours		62

1

General Education Requirement

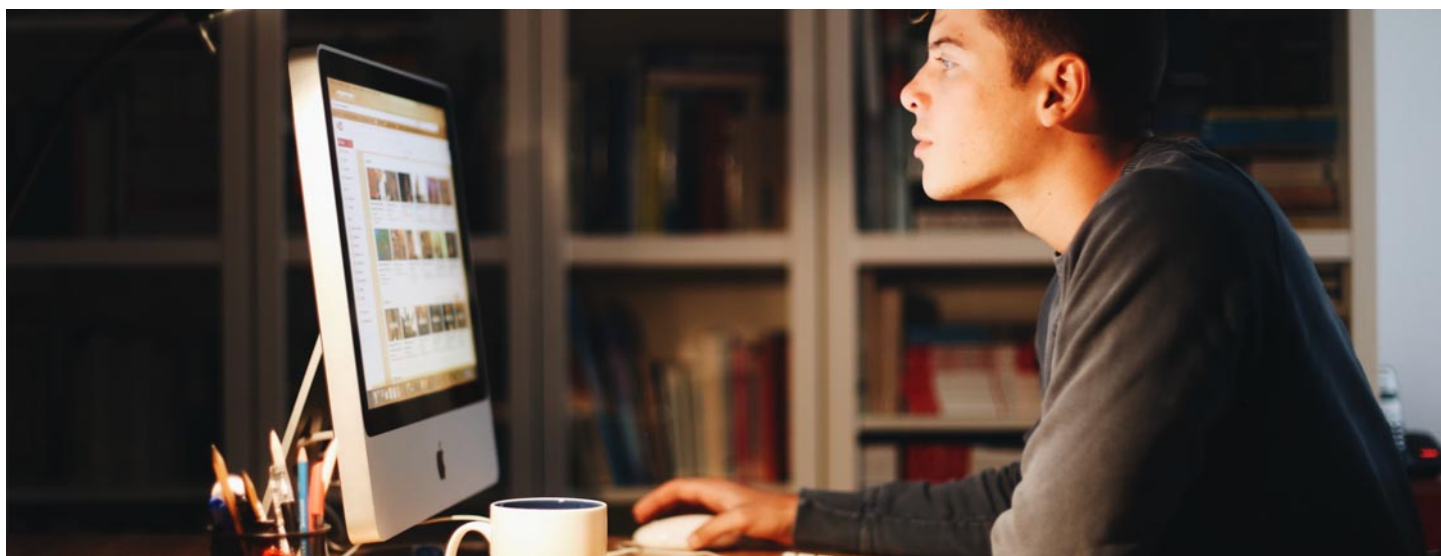
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Program Elective (p. 48)

Program Electives

Code	Title	Hours
ART 113	Beginning Digital Photography	3
ART 115	Beginning Darkroom Photography	3
ART 116	Intermediate Black and White Photography	3
ART 117	Beginning Color Photography	3
ART 126	Printmaking I	3
ART 127	Printmaking II	3
ART 143	Advanced Figure Drawing	3
ART 163	Water Color Painting	3
ART 166	Oil Painting Techniques	3
ART 167	Advanced Oil Painting Techniques	3
ART 196	Ceramics	3
ART 197	Advanced Ceramics & Sculpture	3
ART 198	Sculpture I	3

Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

The Associate in Arts (AA) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education.

For students who want to earn an associate degree before transferring to a four-year institution, the Associate in Arts degree (AA) is the traditional choice for most students. The AA degree indicates a student has mastered the basics of higher education. This degree plan provides you with the IAI General Education Core Curriculum (GECC) courses explained above, and in addition, you will select elective classes (25 credit hours).

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Arts degree.

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
	Mathematics	3
	Fine Arts & Humanities ¹	9
	Social and Behavioral Sciences	9
	Physical Sciences & Life Sciences ²	7
AA Electives		
	Students should work with a College Advisor to select appropriate core and elective courses or select an AA semester map as a guide.	23
Total Hours		60

1

At least one (1) of the courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

2

At least one (1) of the courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

At least one course must meet the Human Diversity (HD) requirement.

AA Transfer Pathways

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

- Accounting, Associate in Arts (p. 322)
- Business/Economics, Associate in Arts (p. 333)
- Business/Finance, Associate in Arts (p. 335)
- Child Development: Early Childhood, Associate in Arts (p. 341)
- Communications, Associate in Arts (p. 344)
- Comparative Religion, Associate in Arts (p. 346)
- Criminal Justice, Associate in Arts (p. 351)
- Dance, Associate in Arts (p. 353)
- Elementary Education, Associate in Arts (p. 355)
- English Education, Associate in Arts (p. 360)
- English, Associate in Arts (p. 362)
- French Education, Associate in Arts (p. 367)
- Gender, Women's, and Sexuality Studies, Associate in Arts (p. 369)
- History, Associate in Arts (p. 375)
- Human Development and Family Studies, Associate in Arts (p. 377)
- Human Geography, Associate in Arts (p. 378)
- Insurance, Associate in Arts (p. 381)
- International Studies, Associate in Arts (p. 382)
- Journalism, Associate in Arts (p. 384)

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- Latin American and Latin@ Studies, Associate in Arts (p. 386)
 - Music (General), Associate in Arts (p. 394)
 - Philosophy, Associate in Arts (p. 397)
 - Photography, Associate in Arts (p. 399)
 - Physical Education, Associate in Arts (p. 401)
 - Political Science, Associate in Arts (p. 406)
 - Psychology, Associate in Arts (p. 409)
 - Social Science Education, Associate in Arts (p. 411)
 - Social Work, Associate in Arts (p. 413)
 - Sociology, Associate in Arts (p. 414)
 - Spanish Education, Associate in Arts (p. 416)
 - Special Education, Associate in Arts (p. 418)
 - Theater Art, Associate in Arts (p. 421)
 - Urban Studies, Associate in Arts (p. 423)
 - World Languages, Associate in Arts (p. 425)

Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

The Associate in Engineering Science (AES) degree offers courses required for transfer to a four-year college or university for students majoring in engineering sciences. Completion of the AES degree does not fulfill the requirements of the IAI General Education Core Curriculum (IAI GECC). City Colleges of Chicago requires that the degree is inclusive of a minimum of 22 semester hours of General Education. A student must complete the general education requirements of the college or university to which she/he transfers.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
MATH 207	Calculus & Analytic Geometry I	5
CHEM 201	General Chemistry I	5
One Fine Arts & Humanities course ¹		3
One Social and Behavioral Sciences course ¹		3
Required Degree Core		
ENGR 190 or CIS 142	Computer Programming for Engineers C++ Object Oriented Programming I	3
MATH 208	Calculus & Analytic Geometry II	5
MATH 209	Calculus & Analytic Geometry III	5
MATH 210	Differential Equations	3
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
Program Electives		
Select a minimum of 16 credit hours of program electives (p. 51)		16
Total Hours		64

1

One of the courses in the Humanities or Social and Behavioral Sciences category must satisfy the Human Diversity requirement.

Program Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
BIOLOGY 121	Biology I	5
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 206	Elements of Mechanics-Statics	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 250	Engineering Projects	2
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

AES Transfer Pathways

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

- Aerospace Engineering, Associate in Engineering Science (p. 324)
- Agricultural Engineering, Associate in Engineering Science (p. 325)

- Architectural Engineering, Associate in Engineering Science (p. 326)
- Bioengineering, Associate in Engineering Science (p. 327)
- Biomedical Engineering, Associate in Engineering Science (p. 332)
- Chemical Engineering, Associate in Engineering Science (p. 337)
- Civil Engineering, Associate in Engineering Science (p. 343)
- Computer Engineering, Associate in Engineering Science (p. 348)
- Computer Science, Associate in Engineering Science (p. 349)
- Cybersecurity Engineering, Associate in Engineering Science (p. 352)
- Electrical Engineering, Associate in Engineering Science (p. 354)
- Engineering Mechanics, Associate in Engineering Science (p. 357)
- Engineering, Associate in Engineering Science (p. 358)
- Environmental Engineering, Associate in Engineering Science (p. 366)
- Gender, Women's, and Sexuality Studies, Associate in Arts (p. 369)
- Industrial Engineering, Associate in Engineering Science (p. 380)
- Materials Science and Engineering, Associate in Engineering Science (p. 388)
- Mechanical Engineering, Associate in Engineering Science (p. 393)
- Nuclear, Plasma, Radiological Engineering, Associate in Engineering Science (p. 396)
- Systems Engineering and Design, Associate in Engineering Science (p. 420)

Associate in General Studies



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0203

The Associate in General Studies (AGS) degree provides students the ability to explore a broad range of college-level courses to develop new skills or investigate a personal interest. Courses may transfer individually to a four-year university, but the degree as a whole is not designed for transfer or as an occupational degree. Students should work closely with an advisor to determine if the AGS is the right degree program to reach their individual goals. City Colleges of Chicago requires that the degree is inclusive of a minimum of 20 semester hours of General Education.

Code	Title	Hours
General Education ¹		
ENGLISH 101	Composition	3
Select 17 credit hours from at least three of the following disciplines: 17		
Mathematics		
Fine Arts & Humanities		
Social and Behavioral Sciences		
Physical Sciences & Life Sciences		
Degree Electives		
Select 40 credit hours		40
Total Hours		60

1

Students are required to take at least one general education course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate Degree.

Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

The Associate in Science (AS) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education. For students who already know they are interested in science, technology, engineering, or mathematics (the “STEM” fields), the Associate in Science degree, or even the Associate in Engineering Science (AES), is probably the one to pursue. This is also a transfer degree, and it is similar to the Associate in Arts. The main difference early-on concerns the selection of specific math and science courses, which will be different for students who want to major in a STEM field. Again, working closely with your advisor will ensure that you enroll in the right classes to achieve your goals.

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Science degree.

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Mathematics		6
Social and Behavioral Sciences		6
Fine Arts & Humanities ¹		6
Physical Sciences & Life Sciences ²		10
AS Electives		

Students should work with a College Advisor to select appropriate core and elective courses, or simply select an AS semester map as a guide. 23

Total Hours 60

1

At least one (1) of the courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

2

At least one (1) of the courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

At least one course must meet the Human Diversity (HD) requirement.

AS Transfer Pathways

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

- Biology Education, Associate in Science (p. 328)
- Biology, Associate in Science (p. 330)
- Chemistry Education, Associate in Science (p. 338)
- Chemistry, Associate in General Studies (p. 340)
- Computer Science, Associate in Science (p. 350)
- Environmental Biology, Associate in Science (p. 364)
- Gender, Women's, and Sexuality Studies, Associate in Arts (p. 369)
- General Science Education, Associate in Science (p. 371)
- Geology, Earth, and Environmental Science, Associate in Science (p. 373)
- Human Development and Family Studies, Associate in Arts (p. 377)
- Mathematics Education, Associate in Science (p. 389)

- Mathematics, Associate in Science (p. 391)
- Physics Education, Associate in Science (p. 403)
- Physics, Associate in Science (p. 405)
- Pre-Aviation, Associate in Science (p. 408)
- Web Development, Associate in Science (p. 424)

Automotive Body Reconstruction Technology, Basic Certificate



College(s): KK

Program Code: 0112

The Basic Certificate in Automotive Body Reconstruction Technology is designed to provide concentrated training in the areas of auto body reconstruction. Students completing the requirements for this certificate will qualify for entry-level positions as auto body component and vehicle reconstruction. Students may also qualify for entry-level auto body service writer positions.



Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 107	Automotive Body Welding	4
AUTOTEC 117	Auto Body Reconstruction I	3
AUTOTEC 121	Structural Analysis and Damage Repair I	4
AUTOTEC 217	Auto Body Reconstruction II	3
AUTOTEC 220	Collision Estimating	4
Total Hours		22

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Auto Body Reconstruction Technology. If this pathway is followed as outlined, you will earn a Basic Certificate. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 107	Automotive Body Welding	4
AUTOTEC 117	Auto Body Reconstruction I	3
Hours		11
Semester 2		
AUTOTEC 121	Structural Analysis and Damage Repair I	4
AUTOTEC 217	Auto Body Reconstruction II	3
AUTOTEC 220	Collision Estimating	4
Hours		11
Total Hours		22

Choose your courses with your College Advisor.

Automotive Body Repainting Technology, Basic Certificate



College(s): KK

Program Code: 0111

The Basic Certificate in Automotive Body Repainting Technology is designed to provide concentrated training in the areas of auto body repainting. Students completing the requirements for this certificate will qualify for entry-level positions as auto body component and vehicle painters. Students may also qualify for entry-level auto body service writer positions.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 118	Auto Body Repainting I	3
AUTOTEC 119	Automotive Body Detailing	5
AUTOTEC 218	Auto Body Repainting II	3
AUTOTEC 220	Collision Estimating	4
AUTOTEC 223	Auto Body Repainting III	3
Total Hours		22

Course	Title	Hours
Semester 1		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 118	Auto Body Repainting I	3
AUTOTEC 218	Auto Body Repainting II	3
Hours		10
Semester 2		
AUTOTEC 119	Automotive Body Detailing	5
AUTOTEC 220	Collision Estimating	4
AUTOTEC 223	Auto Body Repainting III	3
Hours		12
Total Hours		22

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate in Auto Body Repainting Technology. This does not represent a contract, nor does it guarantee course availability. If pathway is followed as outlined, student will earn a Basic Certificate.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Automotive Chassis Maintenance, Basic Certificate



College(s): KK, OH

Program Code: 0134

The Basic Certificate in Automotive Chassis Maintenance is designed to provide concentrated training in the area of under-the-car chassis service and repair. Students completing the requirements for this certificate will qualify for entry-level positions as wheel alignment and brake technicians.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Required Work-Based Learning Courses		
AUTOTEC 108	Work Based Learning I	3
Total Hours		19

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Automotive Chassis Maintenance. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		16
Semester 2		
AUTOTEC 108	Work Based Learning I	3
Hours		3
Total Hours		19

Choose your courses with your College Advisor.

Automotive Fuel Management Technology, Basic Certificate



College(s): KK, OH

Program Code: 0136

The Basic Certificate in Automotive Fuel Management Technology is designed to provide concentrated training in the area of computerized engine performance and fuel management as they relate to drivability service. It will also provide skill enhancement for working technicians in need of upgrading their knowledge and ability to work with computerized engine controls. Students completing the requirements for this certificate will qualify for entry-level positions as tune-up and performance specialists.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 105	Fuel Management I	4
AUTOTEC 205	Fuel Management II	4
AUTOTEC 206	Fuel Management III	4
Required Work-Based Learning Courses		
AUTOTEC 108	Work Based Learning I	3
Total Hours		27

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Automotive Fuel Management Technology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
Hours		12
Semester 2		
AUTOTEC 105	Fuel Management I	4
AUTOTEC 108	Work Based Learning I	3
Hours		7
Semester 3		
AUTOTEC 205	Fuel Management II	4
Hours		4
Semester 4		
AUTOTEC 206	Fuel Management III	4
Hours		4
Total Hours		27

Choose your courses with your College Advisor.

Automotive Maintenance, Basic Certificate



College(s): KK, OH

Program Code: 0128

The Basic Certificate in Automotive Maintenance is designed to provide concentrated training in the area of preventative maintenance on common wear areas of automobiles. Students completing the requirements for this certificate will qualify for entry-level positions as wheel alignment, and brake or air conditioning technicians. Students may also qualify for entry-level management positions.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
AUTOTEC 211	Auto Service Management	4
AUTOTEC 215	AutoTemperature Control Systems	4
Required Work-Based Learning Courses		
AUTOTEC 108	Work Based Learning I	3
Total Hours		27

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Automotive Maintenance. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		16
Semester 2		
AUTOTEC 108	Work Based Learning I	3
Hours		3
Semester 3		
AUTOTEC 211	Auto Service Management	4
AUTOTEC 215	AutoTemperature Control Systems	4
Hours		8
Total Hours		27

Choose your courses with your College Advisor.

Automotive Technology, Advanced Certificate



College(s): KK, OH, TR

Program Code: 0130

The Advanced Certificate program in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Technology that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of maintenance technology, chassis, diesel, and power train, leading to employment in service, maintenance, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.


Future Ready Eligible

Program Requirements - Track 1 (KK)

Code	Title	Hours
Required Program Core - Track 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 105	Fuel Management I	4
AUTOTEC 108	Work Based Learning I	6
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 205	Fuel Management II	4
AUTOTEC 206	Fuel Management III	4
AUTOTEC 209	Steering & Suspension Systems	4

AUTOTEC 215	AutoTemperature Control Systems	4
Total Hours		46

Program Requirements - Track 2 (TR)

Code	Title	Hours
Required Program Core - Track 2		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 106	Fuel Systems	5
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 207	Transmission Transaxle & Dr	4
AUTOTEC 209	Steering & Suspension Systems	4
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
Total Hours		46

Program Requirements - Track 3 (OH)

Code	Title	Hours
Required Program Core - Track 3		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 106	Fuel Systems	5
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 207	Transmission Transaxle & Dr	4
AUTOTEC 209	Steering & Suspension Systems	4

AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
Total Hours		46

Pathways

Semester-by-Semester Program Plan for Full-Time Students - Track 1 (KK)

This is an **example course sequence** for students interested in earning an Advanced Certificate in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn basic certificates (BC) in Automotive Chassis Maintenance, Automotive Fuel Management, and an advanced certificate (AC) in Automotive Technology.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 105	Fuel Management I	4
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 108	Work Based Learning I	6
Hours		14
Semester 3		
AUTOTEC 205	Fuel Management II	4
AUTOTEC 215	AutoTemperature Control Systems	4
Hours		8
Semester 4		
AUTOTEC 206	Fuel Management III	4
Hours		4
Total Hours		46

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - Track 2 (TR)

This is an **example course sequence** for students interested in earning an Advanced Certificate in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an advanced certificate (AC) in Automotive Technology.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4

AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 106	Fuel Systems	5
AUTOTEC 204	Electrical Systems II	4
Hours		9
Semester 3		
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
Hours		13
Semester 4		
AUTOTEC 207	Transmission Transaxle & Dr	4
Hours		4
Total Hours		46

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - Track 3 (OH)

This is an **example course sequence** for students interested in earning an Advanced Certificate in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an advanced certificate (AC) in Automotive Technology.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 106	Fuel Systems	5
AUTOTEC 204	Electrical Systems II	4
Hours		9
Semester 3		
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
Hours		13
Semester 4		
AUTOTEC 207	Transmission Transaxle & Dr	4
Hours		4
Total Hours		46

All plans can be modified to fit the needs of part-time students by adding more semesters.

Automotive Technology, Associate in Applied Science



College(s): KK, OH, TR

Program Code: 0125

The AAS degree in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships and franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the skills essential to employment in the field of maintenance technology, auto body care, chassis, diesel, and power train, leading to employment in service, maintenance, and areas of technological specialty such as detailing, auto body paint and refinishing, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

Program Requirements - Track 1 (KK)

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		15
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
AUTOTEC 211	Auto Service Management	4
AUTOTEC 215	AutoTemperature Control Systems	4
Additional Core		
AUTOTEC 105	Fuel Management 1	4
AUTOTEC 205	Fuel Management II	4

AUTOTEC 206 Fuel Management III 4

Program Electives

Select a minimum of 8 credit hours of program electives (p. 63) 8

Total Hours 66

1

Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement.

Program Electives

Code	Title	Hours
AUTOTEC 108	Work Based Learning I	3
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 207	Transmission Transaxle & Dr	4
CIS 120	Introduction to Computer Applications	3

Program Requirements - Track 2 (TR)

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		15
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 209	Steering & Suspension Systems	4

AUTOTEC 215	AutoTemperature Control Systems	4
Additional Core Requirements		
AUTOTEC 106	Fuel Systems	5
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
Program Electives		
Select a minimum of 6 credit hours of program electives (p. 64)		6
Total Hours		66

1
 Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences & Life Sciences.

2
 At least one course must meet the Human Diversity (HD) requirement.

Program Electives

Code	Title	Hours
AUTOTEC 108	Work Based Learning I	3-6
AUTOTEC 207	Transmission Transaxle & Dr	4
AUTOTEC 211	Auto Service Management	4
CIS 120	Introduction to Computer Applications	3

Program Requirements - Track 3 (OH)

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
	or MATH 107 Math For Technicians I	
SOC SCI 101	General Course I Social Science	3
HUM 201	General Course I Humanities	3
PHY SCI 107	Current Public Issues in Physical Science	3
Select one of the following:		3
AFRO AM 101	Introduction to African-American Studies (HD)	
HISTORY 141	History of World Civilization to 1500 (HD)	
HISTORY 215	History of Latin America (HD)	
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 106	Fuel Systems	5
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 211	Auto Service Management	4
	or AUTOTEC 212 Manual Drive Train & Axles	
AUTOTEC 215	AutoTemperature Control Systems	4
Program Electives		
Select a minimum of 9 credit hours of program electives (p. 64)		9
Total Hours		66

At least one course must meet the Human Diversity (HD) requirement.

Program Electives

Code	Title	Hours
AUTOTEC 207	Transmission Transaxle & Dr	4
CIS 120	Introduction to Computer Applications	3
AUTOTEC 108	Work Based Learning I	4-6
	or AUTOTEC 211 Auto Service Management	

Pathways

Semester-by-Semester Program Plan for Full-Time Students - Track 1 (KK)

This is an **example course sequence** for students interested in earning an Associate in Applied Science degree in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn basic certificates (BC) in Automotive Chassis Maintenance, Automotive Fuel Management, Automotive Maintenance, and Automotive Technology, and an Advanced Certificate (AC) and Associate in Applied Science (AAS) Degree in Automotive Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 105	Fuel Management I	4
AUTOTEC 204	Electrical Systems II ²	4
ENGLISH 101	Composition ¹	3
AUTOTEC 108	Work Based Learning I ²	3
General Education course ¹		3
Hours		17
Semester 3		
AUTOTEC 205	Fuel Management II	4
AUTOTEC 211	Auto Service Management	4
AUTOTEC 215	AutoTemperature Control Systems	4
Mathematics/Physical Sciences/Life Sciences course ¹		3
Hours		15
Semester 4		
AUTOTEC 206	Fuel Management III	4
AUTOTEC 207	Transmission Transaxle & Dr ²	4
Social and Behavioral Sciences course (HD) ¹		3
Fine Arts & Humanities course ¹		3
General Education course ¹		3
Hours		17
Total Hours		69

1
 General Education Requirement

2
 Program Elective (p. 63)

Program Electives

Code	Title	Hours
AUTOTEC 108	Work Based Learning I	3
AUTOTEC 204	Electrical Systems II	4
AUTOTEC 207	Transmission Transaxle & Dr	4
CIS 120	Introduction to Computer Applications	3

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - Track 2 (TR)

This is an **example course sequence** for students interested in earning an Associate in Applied Science degree in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC) and an Associate in Applied Science (AAS) Degree in Automotive Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 106	Fuel Systems	5
AUTOTEC 204	Electrical Systems II	4
ENGLISH 101	Composition ¹	3
CIS 120	Introduction to Computer Applications ²	3
Hours		15
Semester 3		
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
MATH 118	General Education Math ¹	4
Hours		17
Semester 4		
AUTOTEC 207	Transmission Transaxle & Dr ²	4
PHY SCI 111	General Course I Physical Science ¹	4
General Education course ¹		3
Social and Behavioral Sciences course (HD) ¹		3
Fine Arts & Humanities course ¹		3
Hours		17
Total Hours		69

¹

General Education Requirement

²

Program Elective (p. 64)

Program Electives

Code	Title	Hours
AUTOTEC 108	Work Based Learning I	3-6
AUTOTEC 207	Transmission Transaxle & Dr	4
AUTOTEC 211	Auto Service Management	4
CIS 120	Introduction to Computer Applications	3

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - Track 3 (OH)

This is an **example course sequence** for students interested in earning an Associate in Applied Science degree in Automotive Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn basic certificates (BC) in Automotive Chassis Maintenance, Automotive Maintenance, and Automotive Technology and an Advanced Certificate (AC) and Associate in Applied Science (AAS) Degree in Automotive Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Semester 2		
AUTOTEC 106	Fuel Systems	5
ENGLISH 101	Composition ¹	3
CIS 120	Introduction to Computer Applications ²	3
Hours		11
Semester 3		
AUTOTEC 210	Performance & Driveability	5
AUTOTEC 211	Auto Service Management	4
AUTOTEC 212	Manual Drive Train & Axles	4
AUTOTEC 215	AutoTemperature Control Systems	4
MATH 118	General Education Math ¹	4
Hours		21
Semester 4		
AUTOTEC 107	Automotive Body Welding ²	4
PHY SCI 107	Current Public Issues in Physical Science ¹	3
SOC SCI 101	General Course I Social Science ¹	3
HUM 201	General Course I Humanities ¹	3
Select one of the following: ¹		3
AFRO AM 101	Introduction to African-American Studies	
HISTORY 141	History of World Civilization to 1500	
HISTORY 215	History of Latin America	
Hours		16
Total Hours		68

¹

General Education Course

2

Program Elective (p. 66)

Program Electives

Code	Title	Hours
AUTOTEC 207	Transmission Transaxle & Dr	4
CIS 120	Introduction to Computer Applications	3
AUTOTEC 108	Work Based Learning I	4-6
	or AUTOTEC 211 Auto Service Management	

Choose your courses with your College Advisor.

Automotive Technology, Basic Certificate



College(s): OH, TR

Program Code: 0116

The Automotive Basic Certificate Program introduces students to a variety of professional tools and equipment such as automobile scanners and multi-meters utilized in automotive shops and by industry professionals. Students learn the ability to diagnose automotive issues and recommend repairs. The basic certificate provides students with the necessary entry-level skills and theory to enter automobile service/repair fields.

AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Hours		20
Total Hours		20

Choose your courses with your College Advisor.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4
AUTOTEC 109	Automotive Brakes	4
AUTOTEC 209	Steering & Suspension Systems	4
Total Hours		20

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Automotive Technology. It does not represent a contract, nor does it guarantee course availability.

Course	Title	Hours
Semester 1		
AUTOTEC 101	Intro To Automotive Techn	4
AUTOTEC 103	Engine Concepts	4
AUTOTEC 104	Electrical Systems & Power Accessories	4

Aviation Maintenance Technician - General, Basic Certificate



College(s): OH

Program Code: 0444

The Aviation Maintenance Technician - General basic certificate program provides the foundational knowledge of general aircraft for beginning students. With a hands-on approach to learning, students acquire essential mathematics, physics, tool usage, maintenance operations, and general electricity current and emerging aviation maintenance technologies. Upon completion of the basic certificate, students will be eligible to take the FAA General portion of the FAA Aviation Maintenance Technician certification exam.

Program Requirements

Code	Title	Hours
Required Program Core		
AVIATN 101	Aviation General Sciences I-Math, Science and General Physics	5
AVIATN 102	Aviation General Sciences II - Tools, Surfaces, and Corrosion Control	5
AVIATN 103	Aviation General Sciences III - Maintenance Operations and Records	5
AVIATN 104	Aviation General Sciences IV - Basic Electricity	5
Total Hours		20

For Fall 2021, this program is being offered exclusively through Early College for current high school students.

Course	Title	Hours
Junior		
Fall		
AVIATN 101	Aviation General Sciences I-Math, Science and General Physics	5
		Hours
		5
Spring		
AVIATN 102	Aviation General Sciences II - Tools, Surfaces, and Corrosion Control	5
		Hours
		5
Senior		
Fall		
AVIATN 103	Aviation General Sciences III - Maintenance Operations and Records	5
		Hours
		5
Spring		
AVIATN 104	Aviation General Sciences IV - Basic Electricity	5
		Hours
		5
		Total Hours
		20

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Aviation Maintenance Technician - General. If this pathway is followed as outlined, you will earn a Basic Certificate. It does not represent a contract, nor does it guarantee course availability.

Baking and Pastry Arts, Advanced Certificate



College(s): KK

Program Code: 0366

The Advanced Certificate in Baking and Pastry Arts is a sequential program taught over three semesters and includes a majority of the core courses from the parent Baking and Pastry Arts AAS degree program.

Program Requirements

Code	Title	Hours
Required Program Core		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3
330BKPS 769	Cookies and Tarts	3
330BKPS 770	Basic and Classical Cakes	3
330BKPS 771	Special Occasions Cakes	3
330BKPS 772	Individual Pastries	3
330BKPS 773	Confectionary Arts	3
330BKPS 774	Hearth Breads and Rolls	4
330BKPS 775	Specialty Breads	4
330BKPS 776	Advanced Baking Principles	3
Total Hours		37

Pathway

This is an **example course sequence** for students interested in earning a degree in Baking and Pastry Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Baking and Pastry Arts. It does not represent a contract, nor does it guarantee course availability.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3
330BKPS 769	Cookies and Tarts	3
Hours		14
Semester 2		
330BKPS 770	Basic and Classical Cakes	3
330BKPS 771	Special Occasions Cakes	3
330BKPS 772	Individual Pastries	3
330BKPS 773	Confectionary Arts	3
Hours		12
Semester 3		
330BKPS 774	Hearth Breads and Rolls	4
330BKPS 775	Specialty Breads	4
330BKPS 776	Advanced Baking Principles	3
Hours		11
Total Hours		37

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Baking and Pastry Arts, Associate in Applied Science



College(s): KK

Program Code: 0365

The Associate in Applied Science degree program in Baking and Pastry Arts is a sequential learning program taught over four semesters. All semesters include lecture, discussion, demonstration and hands-on production that allow students to practice the techniques of Baking and Pastry production in a commercial bakeshop environment. This program includes production for restaurant and bakeshop sales, offering the student real-world experience in the field.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3
330BKPS 769	Cookies and Tarts	3
330BKPS 770	Basic and Classical Cakes	3
330BKPS 771	Special Occasions Cakes	3
330BKPS 772	Individual Pastries	3
330BKPS 773	Confectionary Arts	3
330BKPS 774	Hearth Breads and Rolls	4
330BKPS 775	Specialty Breads	4
330BKPS 776	Advanced Baking Principles	3
330BKPS 777	Chocolate and Confections	3

330BKPS 778	Contemporary Desserts	6
Total Hours		61

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Baking and Pastry Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC) and Associate in Applied Science (AAS) degree in Baking and Pastry Arts. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3

330BKPS 769	Cookies and Tarts	3
	Hours	14
Semester 2		
330BKPS 770	Basic and Classical Cakes	3
330BKPS 771	Special Occasions Cakes	3
330BKPS 772	Individual Pastries	3
330BKPS 773	Confectionary Arts	3
ENGLISH 101	Composition ¹	3
	Hours	15
Semester 3		
330BKPS 774	Hearth Breads and Rolls	4
330BKPS 775	Specialty Breads	4
330BKPS 776	Advanced Baking Principles	3
BIOLOGY 107	Nutrition-Consumer Education ¹	3
Fine Arts & Humanities course (HD) ¹		3
	Hours	17
Semester 4		
330BKPS 777	Chocolate and Confections	3
330BKPS 778	Contemporary Desserts	6
Social & Behavioral Sciences course ¹		3
Fine Arts and Humanities course ¹		3
	Hours	15
	Total Hours	61

1

General Education Requirement

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Baking and Pastry Arts, Basic Certificate



College(s): KK

Program Code: 0367

The Basic Certificate in Baking and Pastry Arts introduces students to the commercial baking environment, covering safety and sanitation skills and station setup, proper use and care of equipment, and baking and pastry terminology. The program is designed to provide the students with the opportunity to investigate and assess Baking and Pastry Arts as a possible career.

Program Requirements

Code	Title	Hours
Required Program Core		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3
330BKPS 769	Cookies and Tarts	3
Total Hours		14

Pathway

This is an **example course sequence** for students interested in earning a degree in Baking and Pastry Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Baking and Pastry Arts. It does not represent a contract, nor does it guarantee course availability.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition, and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330BKPS 765	Introduction to Baking	3
330BKPS 766	Baking Safety and Sanitation	2
330BKPS 767	Baking Techniques	3
330BKPS 768	Pastry Techniques	3
330BKPS 769	Cookies and Tarts	3
Hours		14
Total Hours		14

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Banking, Basic Certificate



College(s): HW

Program Code: 0417

The Basic Certificate program in Banking is designed to provide students who have little or no formal business knowledge of the banking industry with introductory information and understanding of business and banking. Students will gain knowledge of business and banking operations, aptitude in mathematical calculations, client interaction and client management skills, business development aptitude, technological proficiency, soft skills, and cash handling experience.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
BUSINES 141	Business Mathematics	3
BUSINES 161	Prin Of Bank Operations	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 237	Selling	3
BUSINES 284	Business Communications	3
Total Hours		18

Pathway

This is an **example course sequence** for students interested in pursuing Banking. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
BUSINES 141	Business Mathematics	3
BUSINES 161	Prin Of Bank Operations	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 237	Selling	3
BUSINES 284	Business Communications	3
Hours		18
Total Hours		18

Choose your courses with your College Advisor.

Bar Management, Associate in Applied Science



College(s): KK

Program Code: 0437

Students in the Bar Management Associate in Applied Science can expect instruction on the major concepts and basic skills involved in owning, operating and managing food and beverage establishments, including bars, restaurants, food service facilities, along with other food and beverage concepts. Focused on all students including, non-traditional enrollees, owners and entrepreneurs, the program will develop key skills in finance, alcohol awareness, cocktail culture and design, pricing, customer service, profit margin creation, menu design, wine, beer and spirit knowledge, ordering and receiving, equipment, sanitation, and employee engagement. Upon completion, students will receive nationally recognized certifications in sanitation, customer service and alcohol awareness.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math	4
Two (2) Humanities, Fine Arts, or Social and Behavioral Sciences courses		6
Required Program Core		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
HMG 221	Introduction to Beverage	2
HMG 222	Art of the Cocktail	4

HMG 223	Bar Concept Management	2
HMG 224	Bar Administration and Operations	4
HMG 225	Advanced Beverage Seminar	3
HMG 806	Customer Service Fundamentals	3
HMG 807	Hospitality Financial Management	3
HMG 814	Hospitality Procurement	3
HMG 816	Introduction to Hospitality Marketing Principles	3
Required Work-Based Learning Courses		
HMG 860	Hospitality Internship	4
Total Hours		60

One course must satisfy the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in earning a degree in Bar Management. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Culinary Arts and an Associate in Applied Science Degree (AAS) in Bar Management. It does not represent a contract, nor does it guarantee course availability. Courses may be substituted within the indicated categories (except Communications courses). One course will satisfy the Human Diversity (HD) requirement, and is labeled with an "HD" in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4

SPEECH 101	Fundamentals of Speech Communication ¹	3
	Hours	16
Semester 2		
HMGT 221	Introduction to Beverage	2
HMGT 223	Bar Concept Management	2
HMGT 806	Customer Service Fundamentals	3
HMGT 807	Hospitality Financial Management	3
Humanities, Fine Arts, or Social and Behavioral Sciences course (HD) ¹		3
	Hours	13
Semester 3		
ENGLISH 101	Composition ¹	3
HMGT 222	Art of the Cocktail	4
HMGT 224	Bar Administration and Operations	4
HMGT 814	Hospitality Procurement	3
Humanities, Fine Arts, or Social and Behavioral Sciences course (HD) ¹		3
	Hours	17
Semester 4		
HMGT 225	Advanced Beverage Seminar	3
HMGT 816	Introduction to Hospitality Marketing Principles	3
HMGT 860	Hospitality Internship	4
MATH 118	General Education Math ¹	4
	Hours	14
	Total Hours	60

¹

General Education Requirements

Barbering, Advanced Certificate



College(s): TR

Program Code: 0439

The Cosmetology Department is dedicated to preparing a diverse student body for licensure exam, career entry, advancement, and life-long learning in an increasingly interdependent global society. The Barbering program meets the standards of the Illinois Department of Professional Regulation in total hours and has a licensed teaching staff, standard industry equipment, approved facilities, and quality course content that meets industry requirements.

Program Requirements

Code	Title	Hours
COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
COSMET 107	Barber Salon Technology I	7
COSMET 108	Barber Salon Technology II	7
COSMET 203	Advanced Barbering	6
COSMET 204	Barbering Summative Seminar	6
Total Hours		50

COSMET 102	Hair Cutting Technology	6
Hours		12
Semester 2		
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
Hours		12
Semester 3		
COSMET 107	Barber Salon Technology I	7
COSMET 108	Barber Salon Technology II	7
Hours		14
Semester 4		
COSMET 203	Advanced Barbering	6
COSMET 204	Barbering Summative Seminar	6
Hours		12
Total Hours		50

Pathway

This is an **example course sequence** for students interested in earning an Advanced Certificate in Barbering. If this pathway is followed as outlined, you will earn an Advanced Certificate in Barbering. It does not represent a contract, nor does it guarantee course availability.

Course	Title	Hours
Semester 1		
COSMET 101	Intro to Cosmetology/Barbering	6

Barbering, Associate in Applied Science



College(s): TR

Program Code: 0462

The Associate in Applied Science degree in Barbering offers students an opportunity to gain industry knowledge and practice in haircutting/shaping, razor shaving, styling, creative and graphic designs, chemical services, skincare, and nailcare. Additionally, students will acquire information about operating and owning a business to best prepare them to assume key consulting positions within the industry and to successfully own and manage their own barbershop. Training with live models and consultation with industry professionals are highlights of the program in emphasizing a myriad of career opportunities in the field. Required proficiency exams and exam preparation/reviews are part of the program in meeting the Illinois Department of Professional Regulation (IDFPR) standards. All discipline courses are taught by licensed teaching staff, using standard industry equipment, approved facilities, and quality course content that meets industry requirements.

In the Barbering AAS degree program, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses. Additional elective coursework may cover topics in art or theater art to enhance visual acuity and perception in executing hair design, razor shaving and styling.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Mathematics course		3
CIS 120	Introduction to Computer Applications	3
Social and Behavioral Sciences course (HD)		3
BUSINES 111	Introduction To Business	3
	or BUSINES 21(Entrepreneurship	

Required Program Core

COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
COSMET 107	Barber Salon Technology I	7
COSMET 108	Barber Salon Technology II	7
COSMET 203	Advanced Barbering	6
COSMET 204	Barbering Summative Seminar	6
Total Hours		65

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in Barbering. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) and Associate in Applied Science degree (AAS) in Barbering. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
ENGLISH 101	Composition ¹	3
Hours		15

Semester 2		
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
CIS 120	Introduction to Computer Applications ¹	3
Hours		15
Semester 3		
COSMET 107	Barber Salon Technology I	7
COSMET 108	Barber Salon Technology II	7
Hours		14
Semester 4		
COSMET 203	Advanced Barbering	6
COSMET 204	Barbering Summative Seminar	6
Hours		12
Semester 5		
BUSINES 111 or BUSINES 216	Introduction To Business ¹ or Entrepreneurship	3
MATH 118	General Education Math ¹	4
Social and Behavioral Sciences course (HD) ¹		3
Hours		10
Total Hours		66

1

General Education Requirement

Choose your courses with your College Advisor.

Bilingual Educator Endorsement, Basic Certificate



College(s): TR

Program Code: 0428

The purpose of the Education Department Bilingual Educator Endorsement (BEE) program is to prepare teachers, administrators, and school service professionals who hold an Illinois Professional Educators License to meet the state endorsement requirements for the BEE. The BEE certificate will prepare teachers to teach in Bilingual classrooms in which instruction is provided in English and the students' home language. The coursework in this certificate is specifically aligned to meet the linguistics, development, education, methods, and cultural content requirements of the state endorsements including electives and a BEE practicum experience. The Education Department believes that these endorsements are of particular importance as the number of Bilingual students in Illinois is projected to continue to rise, and there is a declared Bilingual teacher shortage. The BEE certificate will prepare teachers who have tested as proficient in a foreign language to teach in bilingual settings.

Program Requirements

Code	Title	Hours
Required Program Core		
EDUC 220	Theoretical Foundations of 2nd Language Acquisition and Learning	3
EDUC 221	Methods and Materials for Teaching ESL in PK-12	3
EDUC 222	Methods & Materials for Teaching ESL in PK-12 Bilingual	3
EDUC 223	Assessment of the Second Language Learner	3

EDUC 224	Cross Cultural Studies for Teaching Limited English Proficient Students	3
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Required Work-Based Learning Courses

EDUC 225	Bilingual and ESL Practicum	3
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Total Hours		18
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Pathway

This is an **example course sequence** for students interested in pursuing Bilingual Educator Endorsement. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
EDUC 220	Theoretical Foundations of 2nd Language Acquisition and Learning	3
EDUC 221	Methods and Materials for Teaching ESL in PK-12	3
EDUC 222	Methods & Materials for Teaching ESL in PK-12 Bilingual	3
EDUC 223	Assessment of the Second Language Learner	3
EDUC 224	Cross Cultural Studies for Teaching Limited English Proficient Students	3
Hours		15

Semester 2		
EDUC 225	Bilingual and ESL Practicum	3
		<hr/>
	Hours	3
		<hr/>
	Total Hours	18

Choose your courses with your College Advisor.

Admission Requirements:

- Undergrad degree holders
- Valid Illinois Professional Educator License (PEL)
- Pass Target Language Proficiency test through ISBE

Bilingual Teacher Aide, Associate in Applied Science

College(s): HW*

Program Code: 0276

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ³	3
CHLD DV 262	Child, Family & Community Relations	3
EDUC 260	Principles of Practice in Elementary Education	3
LING 101	Language And Culture	3
LING 102	Introduction To Linguistics	3
LING 103	Instructional Media Second Language Teachers	3
LING 104	Cross Cultural/Multicultural Education	3
LING 201	Issues in First and Second Language Acquisition	3
Required Work-Based Learning Courses		
EDUC 269	Practice in Elementary Education-8 Wks. ⁴	6
Program Electives		
Students should meet with a College Advisor for selection of elective courses.		6
Total Hours		61

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement.

3

Requires completion of clinical experience/observation hours

4

Course is held in school-age setting

Biotechnology, Associate in Applied Science



College(s): TR

Program Code: 0215

The Associate in Applied Science degree program for Biotechnology utilizes cellular components and microorganisms for the production of products used in medicine, pharmacology, agriculture, food processing, and environmental cleanup. Employment opportunities are available in laboratories, hospitals, and research and development companies.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

Program Requirements

Code	Title	Hours
General Education Coursework		
BIOLOGY 121	Biology I	5
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
Additional General Education course		3
General Education Human Diversity course		3
Required Program Core		
BIOLOGY 122	Biology II	5
BIOLOGY 209	Biochemistry	4
BIOLOGY 250	Intro To Molecular Biology	3
BIOLOGY 251	Molecular Biology I	4
BIOLOGY 252	Molecular Biology II	4
CHEM 201	General Chemistry I	5
CHEM 205	Organic Chemistry I	6
MATH 140	College Algebra	4
MCROBIO 233	General Microbiology	4
MCROBIO 234	Applied Microbiology	4
Program Electives		

Select a minimum of 6 credit hours of the following: 6

BIOLOGY 107	Nutrition-Consumer Education
BIOLOGY 210	Survey Of Biotechnology
CHEM 204	Quantitative Analysis
CHEM 207	Organic Chemistry II
CHEM 217	Intro Instrumental Analysis
CIS 116	Operating System I

Total Hours 67

Requirements for Admission##

- Completion of the Biotechnology program application.
- Graduation from an accredited high school or acceptable scores on the General Education Development (GED) test. #Foreign and domestic high school education or domestic GED must be validated by official transcripts.
- Validation of previous college or biotechnology education by official transcripts.
- Average or above-average high school standing with one year of biology.
- Algebra, chemistry and biology courses taken in another country must be repeated in this country.
- Acceptable scores on the American College Test (ACT).
- Acceptable scores on the standardized reading test administered by Truman College.
- Demonstrated proficiency in speaking and reading English.

BNA Fundamentals and Clinical, Basic Certificate



College(s): MX

Program Code: 0801

This Illinois Department of Public Health approved certificate program for Basic Nursing Assistant (BNA) prepares students to work in the health care industry as a Certified Nursing Assistant (CNA). Students will be introduced to the discipline of nursing and the basic approaches to patient care. The role of the CNA as an assistant to the licensed nurse and member of the health care team is studied and practiced in the classroom, laboratory and clinical setting. Upon successful completion of all components of the program, the graduate must pass the State competency exam to become certified as a Nursing Assistant in the State of Illinois.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For further information about the BNA Program at Malcolm X College, visit the program's webpage ([https://www.ccc.edu/colleges/malcolm-x/departments/pages/-nursing-assistant-\(basic\)-.aspx](https://www.ccc.edu/colleges/malcolm-x/departments/pages/-nursing-assistant-(basic)-.aspx)).

Program Requirements

Code	Title	Hours
Required Program Core		
STHLTH 624	BNA Fundamentals/Clinical	8
Total Hours		8

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate in Basic Nursing Assistant. If this pathway is followed as outlined, you will earn a Basic Certificate (BC). It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
STHLTH 624	BNA Fundamentals/Clinical	8
Hours		8
Total Hours		8

Choose your courses with your College Advisor.

Admissions Requirements

- Eligible for ENGLISH 96 Aligned Reading and Composition#and READING 125 Developmental Reading Skills II
- Eligible for MATH 98 Beginning Algebra with Geometry or higher
- Submit completed medical examination documentation
- Submit official/sealed college transcripts to **Malcolm X College Registrar's Office (required)**. **Official transcripts located at another CCC campus will not transfer to the Malcolm X College Registrar's Office.** Please allow yourself extra time, as international transcripts take longer to receive.
- It is the **applicant's responsibility** to ensure that all submitted transcripts have been evaluated and posted by a CCC Registrar (or their designee) on the student's PeopleSoft academic history.

Business Administration/General Business, Advanced Certificate

College(s): DA*, TR*

Program Code: 0042

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other Business offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 211	Business Law I	3
	or BUSINES 214The Legal & Social Environment of Business	
CIS 120	Introduction to Computer Applications	3
ECON 201	Principles Of Economics I	3
Program Electives		
Select a minimum of 10 credit hours of the following or others as recommended by a College Advisor.		10
BUSINES 203	Intro Cost Accounting	
BUSINES 204	Computer Applications Intermediate Accounting	
BUSINES 205	Intermediate Accounting	
BUSINES 212	Business Law II	
BUSINES 230	E-Business Marketing	
BUSINES 231	Marketing	
BUSINES 232	Fundamentals of International Business	
BUSINES 241	Introduction To Finance	
BUSINES 269	Principles Of Management	
CIS 101	Computer Science 101	
ECON 201	Principles Of Economics I	
ECON 202	Principles Of Economics II	
ENTRE 201	Introduction to Entrepreneurship	
ENTRE 202	Opportunity Recognition and Development	
Total Hours		30

Cannabis Dispensary Operations Specialist, Basic Certificate



College(s): OH

Program Code: 0436

The Cannabis Dispensary Operations Certificate prepares students to work in a licensed cannabis dispensary and introduces students to the basics of legally dispensing cannabis in a licensed setting. Students will gain an understanding of the legal environment of dispensary operations in alignment with state and federal laws that regulate cannabis distribution to clients. Students will acquire skills to interact with and educate cannabis clients in a regulated environment, as well as obtain the foundational knowledge to pursue additional careers in the cannabis industry.



Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
CANBS 110	Introduction to Cannabis ¹	3
CANBS 111	Cannabis and the Law ¹	3
CANBS 112	Dispensary Operations ¹	4
SCML 154	Customer Service Operations	3
Total Hours		16

¹

Effective Fall 2021, the subject for these courses will change from SCML to CANBS. Students who have already taken the courses under SCML will receive the same credit in progress toward the certificate and will not need to retake the courses.

Chemical Laboratory Technology, Associate in Applied Science



College(s): TR

Program Code: 0137

The Associate in Applied Science degree program for Chemical Laboratory Technology focuses on the study of the development, production and utilization of industrial chemicals, and methods used in modern chemical laboratories. The program can lead to employment as a chemical lab technician (working under supervision of senior technicians), engineer, or scientist in production or testing, as well as in commercial utilization of chemicals and chemical products.

Select a minimum of 16 credit hours of the following:		16
CIS 120	Introduction to Computer Applications	
MATH 141	Plane Trigonometry	
MATH 208	Calculus & Analytic Geometry II	
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	
Total Hours		63

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 140	College Algebra	4
	Fine Arts & Humanities course	3
	Social and Behavioral Sciences course	3
	General Education Human Diversity course	3
Required Program Core		
CHEM 201	General Chemistry I	5
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CHEM 217	Intro Instrumental Analysis	4
MATH 207	Calculus & Analytic Geometry I	5
Program Electives		

Child Development: Elementary Education, Advanced Certificate

College(s): HW*

Program Code: 0284

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 109	Language & Literacy Development in Early Childhood	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
CHLD DV 143	Science & Math for Young Children	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ¹	3
EDUC 260	Principles of Practice in Elementary Education	3
Required Work-Based Learning Courses		
EDUC 269	Practice in Elementary Education-8 Wks. ²	6
Program Electives		
	Students should meet with a College Advisor for selection of one elective course.	3
Total Hours		34

1

Requires completion of clinical experience/observation hours

2

Course is held in school-age setting

Child Development: Elementary Education, Associate in Applied Science

College(s): HW*

Program Code: 0280

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
	or CHLD DV 145 Creative Activities For Young Children	
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 109	Language & Literacy Development in Early Childhood	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
CHLD DV 143	Science & Math for Young Children	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ³	3
EDUC 260	Principles of Practice in Elementary Education	3
Required Work-Based Learning Courses		
EDUC 269	Practice in Elementary Education-8 Wks. ⁴	6
Program Electives		
The following courses are recommended for elective credit:		
CHLD DV 205	Development of Exceptional Child	3
PSYCH 201	General Psychology	3
PSYCH 207	Child Psychology	3
SOC 201	Intro To the Study Of Society	3
SOC 203	Marriage And The Family	3
Total Hours		61

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement

3

Requires completion of clinical experience/observation hours

4

Course is held in school-age setting

Child Development: Pre-school Education Infant/Toddler, Advanced Certificate



College(s): DA, HW, KK, MX, OH, TR

Program Code: 0286

The Advanced Certificate program in Child Development: Pre-school Education Infant/Toddler prepares students for employment in center or home-based programs that provide child care for infants and toddlers. The study of child development theory and skills is necessary for those interested in becoming early childhood educators for infants and toddlers.

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I ¹	4
CHLD DV 107	Health Safety And Nutrition ¹	3
CHLD DV 109	Language & Literacy Development in Early Childhood ¹	3
CHLD DV 120	Intro To Early Childhood Education Group Care ¹	3
CHLD DV 142	Methods & Materials for Infant Toddler Care ¹	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ¹	3
CHLD DV 248	Principles & Practice of Infant & Toddler Care ¹	4
Required Work-Based Learning Courses		
CHLD DV 259	Practicum In Pre-School ¹	6
Program Electives		
CHLD DV 262	Child, Family & Community Relations ¹	3
	or CHLD DV 23(Intr To Early Intervention)	
Total Hours		32

¹

Requires completion of clinical experience/observation hours

Pathway

This is an **example course sequence** for students interested in earning an Advanced Certificate (AC) in Child Development: Pre-school Education Infant/Toddler. It does not represent a contract, nor does it guarantee course availability. Advanced Certificate (AC) in Child Development: Pre-school Education Infant/Toddler.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
	Hours	10
Semester 2		
CHLD DV 109	Language & Literacy Development in Early Childhood	3
CHLD DV 142	Methods & Materials for Infant Toddler Care	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families	3
CHLD DV 230 or CHLD DV 262	Intr To Early Intervention ¹ or Child, Family & Community Relations	3
	Hours	12
Semester 3		
CHLD DV 248	Principles & Practice of Infant & Toddler Care	4

CHLD DV 259	Practicum In Pre-School	6
	Hours	10
	Total Hours	32

1

Program Elective

Choose your courses with your College Advisor.

Child Development: Pre-school Education, Advanced Certificate



College(s): DA, HW, KK, MX, OH, TR

Program Code: 0282

Child Development: Pre-school Education, Advanced Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
Any General Education Mathematics or Life Sciences or Physical Sciences course		3
Any General Education course		3
CHLD DV 101	Human Growth & Development I ¹	4
CHLD DV 107	Health Safety And Nutrition ¹	3
CHLD DV 120	Intro To Early Childhood Education Group Care ¹	3
CHLD DV 149	Creative Activities For Young Children ¹	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ¹	3
CHLD DV 262	Child, Family & Community Relations ¹	3
Any Child Development (0090) course		3
Total Hours		31

¹
Requires completion of clinical experience/observation hours

Pathway

This is an **example course sequence** for students interested in pursuing Pre-School Education. This does not represent a contract or guarantee course availability. If this five-semester pathway is followed as outlined, students will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Child Development: Pre-School Education. This pathway is a great option for students intending to go to work in an Early Childhood

setting, or looking to pursue a bachelor's degree program or a teacher certification bachelor degree program in Early Childhood Education. Please see your advisor for more specific information.

Semester-by Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
ENGLISH 101	Composition	3
Select one Mathematics or Life Sciences or Physical Sciences course ¹		3
Hours		12
Semester 2		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 149	Creative Activities For Young Children	3
CHLD DV 262	Child, Family & Community Relations	3
Select one of the following:		3
ANTHRO 202	Cultural Anthropology (HD)	
Social and Behavioral Sciences course (HD)		
Hours		13
Semester 3		
CHLD DV 109	Language & Literacy Development in Early Childhood ²	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families	3
Hours		6
Total Hours		31

¹
MATH 121 Math For Elementary Teachers I is recommended.

²
Program Elective

Choose your courses with your College Advisor.

Child Development: Pre-school Education, Associate in Applied Science



College(s): DA, HW, KK, MX, OH, TR

Program Code: 0278

The Associate in Applied Science degree program in Child Development: Pre-school Education provides child development theory and skills for the student who intends to work immediately in a pre-school program as a teacher or teacher assistant in public and private preschools, child care centers, or nursery schools as well as prepare students to work as teacher aides and activities supervisors.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
CHLD DV 101	Human Growth & Development I ²	4
CHLD DV 107	Health Safety And Nutrition ²	3
CHLD DV 109	Language & Literacy Development in Early Childhood ²	3
CHLD DV 120	Intro To Early Childhood Education Group Care ²	3
CHLD DV 143	Science & Math for Young Children ²	3
CHLD DV 149	Creative Activities For Young Children ²	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families ²	3
CHLD DV 258	Principles & Practices of Pre-School Education ²	4
CHLD DV 262	Child, Family & Community Relations (HD) ²	3
Required Work-Based Learning Courses		
CHLD DV 259	Practicum In Pre-School ²	6
Program Electives		

Select a minimum of 12 credit hours of the following along with others as recommended by a College Advisor. 12

CHLD DV 102	Human Growth & Development II
CHLD DV 142	Methods & Materials for Infant Toddler Care ^{2,3}
CHLD DV 205	Development of Exceptional Child
CHLD DV 248	Principles & Practice of Infant & Toddler Care ^{2,3}
CIS 120	Introduction to Computer Applications

Total Hours 62

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences and Life Sciences.

2

Requires completion of clinical experience/observation hours

3

Select these electives to earn the Gateways to Opportunity Infant Toddler Credential

Pathway

This is an **example course sequence** for students interested in pursuing Pre-School Education. This does not represent a contract or guarantee course availability. If this five-semester pathway is followed as outlined, students will earn a Basic Certificate (BC), an Advanced Certificate (AC), and an Associate in Applied Science (AAS) Degree in Child Development: Pre-School Education. This pathway is a great option for students intending to go to work in an Early Childhood setting, or looking to pursue a bachelor's degree program or a teacher certification bachelor degree program in Early Childhood Education. Please see your advisor for more specific information.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
ENGLISH 101	Composition ¹	3
Select one Mathematics or Physical Sciences or Life Sciences course ^{1,2}		3
Hours		12
Semester 2		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 149	Creative Activities For Young Children	3
CHLD DV 262	Child, Family & Community Relations	3
Select one of the following:		3
ANTHRO 202	Cultural Anthropology (HD) ¹	
Social and Behavioral Sciences course (HD) ¹		
Hours		13
Semester 3		
CHLD DV 109	Language & Literacy Development in Early Childhood	3
CHLD DV 143	Science & Math for Young Children	3
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families	3
LIT 130	Children's Literature ¹	3
Hours		12
Semester 4		
CHLD DV 258	Principles & Practices of Pre-School Education	4
Select one of the following:		3-4
CHLD DV 102	Human Growth & Development II ³	
MATH 122	Math For Elementary Teachers II ³	
Elective course (p. 94) ³		
Select one of the following:		3
CHLD DV 142	Methods & Materials for Infant Toddler Care ³	
Elective course (p. 94) ³		
Select one of the following:		3
PSYCH 201	General Psychology ¹	
POL SCI 201	The National Government ¹	
HISTORY 111	History of American People To 1865 ¹	
HISTORY 112	History of American People From 1865 ¹	
General Education course ¹		
Hours		13-14
Semester 5		
CHLD DV 259	Practicum In Pre-School	6
Select one of the following:		3
CHLD DV 205	Development of Exceptional Child ³	
Elective course ³		
Select one of the following:		3-4
CHLD DV 248	Principles & Practice of Infant & Toddler Care ³	
Elective course (p. 94) ³		
Hours		12-13
Total Hours		62-64

1

General Education Requirement

2

MATH 121 Math For Elementary Teachers I is recommended.

3

Program Elective (p. 94)

Program Elective

The courses listed below in the Child Development and Computer Information Systems disciplines are recommended for elective credit in addition to other courses recommended by a College Advisor:

Code	Title	Hours
CHLD DV 102	Human Growth & Development II	3
CHLD DV 142	Methods & Materials for Infant Toddler Care	3
CHLD DV 205	Development of Exceptional Child	3
CHLD DV 248	Principles & Practice of Infant & Toddler Care	4
CIS 120	Introduction to Computer Applications	3

Choose your courses with your College Advisor.

Child Development: Pre-school Education, Basic Certificate



College(s): DA, HW, KK, MX, OH, TR

Program Code: 0277

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
CHLD DV 149	Creative Activities For Young Children	3
CHLD DV 262	Child, Family & Community Relations	3
Total Hours		16

Course	Title	Hours
Semester 1		
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 120	Intro To Early Childhood Education Group Care	3
Hours		6
Semester 2		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 149	Creative Activities For Young Children	3
CHLD DV 262	Child, Family & Community Relations	3
Hours		10
Total Hours		16

Choose your courses with your College Advisor.

All course require completion of clinical experience/observation hours



Pathway

This is an **example course sequence** for students interested in pursuing Pre-School Education. This does not represent a contract or guarantee course availability. If this five-semester pathway is followed as outlined, students will earn a Basic Certificate (BC) in Child Development: Pre-School Education. This pathway is a great option for students intending to go to work in an Early Childhood setting, or looking to pursue a bachelor's degree program or a teacher certification bachelor degree program in Early Childhood Education. Please see your advisor for more specific information.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Class C Driver Training, Basic Certificate



College(s): OH

Program Code: 0405

The Class C Driver Training program is designed to provide students with an in-depth coverage of the laws, rules and regulations that are applicable to the operation of both commercial and non-commercial motor vehicles. Students will gain knowledge and skills in the areas of vehicle inspection, pre-testing, skill operations and defensive driving techniques. Students will be eligible to apply for positions such as delivery driver, para-transit driver and/or medi-car driver.

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 145	Class C Driver Training	3
Total Hours		3

CNC Engineering Technology, Advanced Certificate



College(s): DA

Program Code: 0448

This program builds on the skills attained in the CNC BC. #Students learn more advanced CNC operational skills, CNC G code programming and Computer Aided Drafting. #Students will have extensive hands on time operating the CNC lathes, mills other CNC machine tools including CNC fabrication equipment to gain confidence in their operation and programming skills. #CNC machining is utilized extensively in industry and operators of this equipment are highly sought after.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
340MFGT 210	Automated Fabrication I	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing CNC Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing

Technology and CNC Technology and an Advanced Certificate (AC) in CNC Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
		Hours
		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3
340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
		Hours
		12
Semester 3		
340MFGT 210	Automated Fabrication I	3
		Hours
		3
Total Hours		30

CNC Engineering Technology, Associate in Applied Science



College(s): DA

Program Code: 0449

The Associate in Applied Science (AAS) in CNC Engineering Technology builds on the AC in CNC Engineering Technology adding in the additional materials, Computer Aided Manufacturing and Advanced Metrology skills students need when pursuing careers in advanced manufacturing.

Students in this program are looking to pursue careers leading teams and solving problems for manufacturing employers in the metal working industries that are increasingly becoming more automated and integrated with advanced technologies.

Program Requirements

Code	Title	Hours
General Education Requirements ¹		
MATH 140	College Algebra	4
ENGLISH 101	Composition	3
Social and Behavioral Sciences		3
Fine Arts/Humanities		3
Physical Sciences/Life Sciences		3
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 172	Quality Systems I	3

340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 210	Automated Fabrication I	3
340MFGT 260	CNC III - Advanced Operations	3
340MFGT 274	Materials II - Testing and Analysis	3
Total Hours		61

¹

At least one course must meet the Human Diversity (HD) (p. 438) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing CNC Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology and an Advanced Certificate (AC) and Associate in Applied Science (AAS) Degree in CNC Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3

340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
ENGLISH 101	Composition ¹	3
Hours		15
Semester 3		
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 260	CNC III - Advanced Operations	3
Social and Behavioral Sciences course (HD) ¹		3
MATH 140	College Algebra ¹	4
Hours		16
Semester 4		
340MFGT 172	Quality Systems I	3
340MFGT 210	Automated Fabrication I	3
340MFGT 274	Materials II - Testing and Analysis	3
Fine Arts/Humanities course (HD) ¹		3
Physical Sciences/Life Sciences course ¹		3
Hours		15
Total Hours		61

¹

General Education course

Choose your courses with your College Advisor.

CNC Operations, Basic Certificate



College(s): DA*, WR

Program Code: 0422

Program Requirements

**This program is no longer accepting new students at Daley College. Please see the CNC Technology BC (<https://catalog.ccc.edu/academic-program-requirements/cnc-technology-basic-certificate/>) program.*

Code	Title	Hours
Required Program Core		
340MFGT 111	Machining Processes I	3
	or 340MFGT 11 Machining Processes II	
340MFGT 140	CNC Fundamentals	3
Total Hours		6

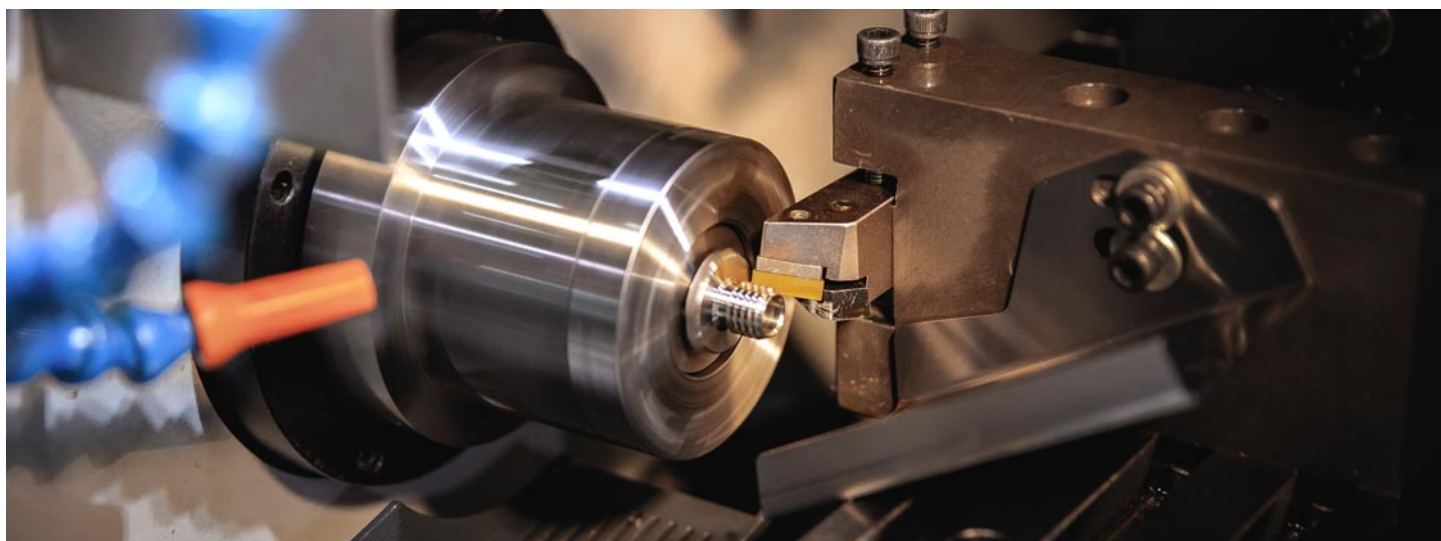
Pathway

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
340MFGT 111	Machining Processes I	3
	or 340MFGT 112 or Machining Processes II	
Hours		3
Semester 2		
340MFGT 140	CNC Fundamentals	3
Hours		3
Total Hours		6

Choose your courses with your College Advisor.

CNC Technology, Basic Certificate



College(s): DA

Program Code: 0447

This is the second Basic Certificate that all Applied Engineering students will proceed through as they continue to build on their skills in Advanced Manufacturing. Students will be learning the operation and programming basics of CNC equipment commonly used in manufacturing operations, how to operate manual mills and lathes, and other related CNC operator processes that manufacturing production operations need their team members to have.



Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
		Hours
		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3
		Hours
		6
		Total Hours
		21

Program Requirements

Code	Title	Hours
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
Total Hours		21

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Manufacturing Technology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Collision Technology, Advanced Certificate



College(s): KK

Program Code: 0133

The Advanced Certificate program in Collision Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Collision that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of auto body care, leading to employment in service, maintenance, and areas of technological specialty such as detailing, auto body paint and refinishing, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

Program Requirements

Code	Title	Hours
Required Program Core		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 107	Automotive Body Welding	4
AUTOTEC 117	Auto Body Reconstruction I	3
AUTOTEC 118	Auto Body Repainting I	3
AUTOTEC 119	Automotive Body Detailing	5
AUTOTEC 121	Structural Analysis and Damage Repair I	4
AUTOTEC 122	Structural Analysis and Damage Repair II	4
AUTOTEC 217	Auto Body Reconstruction II	3
AUTOTEC 218	Auto Body Repainting II	3
AUTOTEC 220	Collision Estimating	4
AUTOTEC 223	Auto Body Repainting III	3
Total Hours		40

Pathway

This is an **example course sequence** for students interested in earning an Advanced Certificate in Collision Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AUTOTEC 102	Introduction to Collision Technology	4
AUTOTEC 107	Automotive Body Welding	4
AUTOTEC 117	Auto Body Reconstruction I	3
AUTOTEC 217	Auto Body Reconstruction II	3
Hours		14
Semester 2		
AUTOTEC 121	Structural Analysis and Damage Repair I	4
AUTOTEC 122	Structural Analysis and Damage Repair II	4
AUTOTEC 220	Collision Estimating	4
Hours		12
Semester 3		
AUTOTEC 118	Auto Body Repainting I	3
AUTOTEC 218	Auto Body Repainting II	3
AUTOTEC 223	Auto Body Repainting III	3
AUTOTEC 119	Automotive Body Detailing	5
Hours		14
Total Hours		40

Choose your courses with your College Advisor.

Combination Welder, Basic Certificate



College(s): KK

Program Code: 0758

The Basic Certificate program in Combination Welder is designed to provide students with training in basic welding skills in a shop setting. In addition to learning welding mathematics, blueprint reading, and layout and fabrication, students are also introduced to the basic fundamentals of job safety and ethics. Graduates of this program are qualified for entry level employment as an ARC, MIG, or TIG welder.



Program Requirements

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 448	Vocational Physical Training I	1
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
332TECH 509	Intro to Basic Arc Welding	3
332TECH 510	Blueprint, Layout, & Fabrication	2
332TECH 518	Manufacturing Materials & Processes	1
332TECH 520	Arc Welding	4
332TECH 526	Welding Mathematics I	1
332TECH 530	Advanced Welding	4
330BSCM 532	Basic Computer Technology	1
Total Hours		20

Pathway

This is an **example course sequence** for students interested in pursuing welding. This does not represent a contract, nor does it guarantee course

availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Welder (Combination).

The Basic Certificate program in Welder (Combination) is designed to provide students with training in basic welding skills in a shop setting. In addition to learning welding mathematics, blueprint reading, layout and fabrication, students are also introduced to the basic fundamentals of job safety and ethics. Graduates of this program are qualified for entry level employment as an ARC, MIG, or TIG welder.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 509	Intro to Basic Arc Welding	3
332TECH 409	Construction Safety	1
332TECH 448	Vocational Physical Training I	1
332TECH 518	Manufacturing Materials & Processes	1
PHASE 2		
332TECH 510	Blueprint, Layout, & Fabrication	2
332TECH 462	Vocational Physical Training II	1
332TECH 520	Arc Welding	4
PHASE 3		
332TECH 463	Vocational Physical Training III	1
330BSCM 532	Basic Computer Technology	1
332TECH 526	Welding Mathematics I	1
332TECH 530	Advanced Welding	4
Hours		20
Total Hours		20

Choose your courses with your College Advisor.

Commercial Driver Training, Basic Certificate



College(s): OH

Program Code: 0876

The Commercial Driver Training certificate program is designed for individuals with little or no commercial driving experience. The Commercial Driver Training program trains students for entry level employment as commercial motor vehicle operators. In partnership with the Illinois Department of Transportation, this program prepares students to obtain a Commercial Driver's License (CDL) in the State of Illinois.



Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 106	Road Driving	2
STTRDE 148	Commercial Driving Training Practice	7
STTRDE 337	Commercial Driver Training Theory	7
Total Hours		16

Special Admission Requirements

- Must be at least 21 years of age
- Have a valid Illinois driver's license
- Have a good driving record
- Provide a current Court-Purpose Motor Vehicle Report (MVR) which can be obtained from Secretary of State for \$12.00
- Be able to pass a DOT Physical and Drug Screen
- Must be able to read, write and understand English

Commercial Passenger Driver: Class B, Basic Certificate



College(s): OH

Program Code: 0875

The Commercial Passenger Driver: Class B certificate program is designed for students with minimum experience who are trained to operate Class B passenger and non-passenger motor vehicles. In partnership with the Illinois Department of Transportation, the program prepares students for a Class B Commercial Driver's License in the State of Illinois.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 147	Passenger Driver Practice	4
STTRDE 338	Passenger Driver Theory	5
Total Hours		9

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Commercial Passenger Driver: Class B. This does not represent a contract, nor does it guarantee course availability.

Prospective students must apply for admission into the Commercial Driver Training Program.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
STTRDE 147	Passenger Driver Practice	4

STTRDE 338	Passenger Driver Theory	5
Hours		9
Total Hours		9

Choose your courses with your College Advisor.

Special Admission Requirements

- Must be at least 21 years of age
- Have a valid Illinois driver's license
- Have a good driving record
- Provide a current Court-Purpose Motor Vehicle Report (MVR) which can be obtained from Secretary of State for \$12.00
- Be able to pass a DOT Physical and Drug Screen
- Must be able to read, write and understand English

Communication Design, Advanced Certificate



College(s): KK

Program Code: 0166

Communication Design, Advanced Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 102	Website Design I	3
COM DSGN 104	Digital Photography	3
COM DSGN 132	Publication Design	3
COM DSGN 150	Graphic Design I	3
COM DSGN 202	Website Design II	3
COM DSGN 212	Motion Graphics I	3
COM DSGN 213	Motion Graphics II	3
COM DSGN 224	Digital Typography	3
COM DSGN 250	Graphic Design II	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in earning a degree in Communications Design. It does not represent a contract, nor does it guarantee course availability. If the pathway is followed as outlined, you will earn a Basic Certificate in Print Design, a Basic Certificate in Web Page Design, an Advanced Certificate in Communication Design.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 104	Digital Photography	3
Hours		6
Semester 2		
COM DSGN 224	Digital Typography	3
COM DSGN 150	Graphic Design I	3
Hours		6
Semester 3		
COM DSGN 102	Website Design I	3
COM DSGN 132	Publication Design	3
COM DSGN 212	Motion Graphics I	3
COM DSGN 250	Graphic Design II	3
Hours		12
Semester 4		
COM DSGN 202	Website Design II	3
COM DSGN 213	Motion Graphics II	3
Hours		6
Total Hours		30

Choose your courses with your College Advisor.

Communication Design, Associate in Applied Science



College(s): KK

Program Code: 0165

The Associate in Applied Science degree program in Communication Design is a creative hybrid learning environment that challenges students to acquire competent skills in art, graphics, website, and animation design. Students train as communication designers and entrepreneurs in the visual communication industry.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
General Education Mathematics course (MATH 118 or higher)		3
FIN ART 107	History of Architecture, Painting & Sculpture I	3
Fine Arts & Humanities course ¹		3
Social and Behavioral Sciences course ¹		3
Required Program Core		
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 102	Website Design I	3
COM DSGN 104	Digital Photography	3
COM DSGN 132	Publication Design	3
COM DSGN 150	Graphic Design I	3
COM DSGN 202	Website Design II	3
COM DSGN 212	Motion Graphics I	3
COM DSGN 213	Motion Graphics II	3
COM DSGN 224	Digital Typography	3
COM DSGN 250	Graphic Design II	3
COM DSGN 298	Design Studio	3
ART 144	Two Dimensional Design	3
MEDIACM 240	Minicam & Videotape Editing	3

Required Work-Based Learning Courses

COM DSGN 290	Practicum Internship	3
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Program Electives

Select a minimum of 3 credit hours of the following recommended courses or others as suggested by a College Advisor: 3

ART 131	General Drawing
ART 132	Advanced General Drawing
DMD 115	Digital Audio
FIN ART 108	Hist Of Arch Paint Sculpt II
MEDIACM 250	Mini-Cam & Video Editing II
MEDIACM 271	Intro to Interactive Media

Total Hours	60
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One of the courses must fulfill the Human Diversity requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Communications Design. It does not represent a contract, nor does it guarantee course availability. If the pathway is followed as outlined, you will earn a Basic Certificate in Print Design, a Basic Certificate in Web Page Design, an Advanced Certificate in Communication Design and an Associate in Applied Science degree in Communications Design. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

COM DSGN 101	Introduction to Communication Design	3
COM DSGN 104	Digital Photography	3
FIN ART 107	History of Architecture, Painting & Sculpture I ¹	3
ART 144	Two Dimensional Design	3
Hours		15
Semester 2		
COM DSGN 224	Digital Typography	3
COM DSGN 150	Graphic Design I	3
MATH 118	General Education Math ¹	4
Social and Behavioral Sciences course ¹		3
Fine Arts & Humanities (HD) ¹		3
Hours		16
Semester 3		
COM DSGN 102	Website Design I	3
COM DSGN 132	Publication Design	3
COM DSGN 212	Motion Graphics I	3
COM DSGN 250	Graphic Design II	3
MEDIACM 240	Minicam & Videotape Editing	3
Hours		15
Semester 4		
COM DSGN 202	Website Design II	3
COM DSGN 298	Design Studio	3
COM DSGN 213	Motion Graphics II	3
COM DSGN 290	Practicum Internship	3
Program Elective (p. 108) ²		3
Hours		15
Total Hours		61

1

General Education Requirement

2

Select a minimum of 3 credit hours of the recommended courses or others as suggested by a College Advisor.

Program Electives

Code	Title	Hours
ART 131	General Drawing	3
ART 132	Advanced General Drawing	3
DMD 115	Digital Audio	3
FIN ART 108	Hist Of Arch Paint Sculp II	3
MEDIACM 250	Mini-Cam & Video Editing II	3
MEDIACM 271	Intro to Interactive Media	3
Or other courses as suggested by a College Advisor		3

Choose your courses with your College Advisor.

Communication Design: Print Design, Basic Certificate



College(s): KK

Program Code: 0192

Communication Design: Print Design, Basic Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 132	Publication Design	3
COM DSGN 150	Graphic Design I	3
COM DSGN 224	Digital Typography	3
COM DSGN 250	Graphic Design II	3
Total Hours		15

COM DSGN 150	Graphic Design I	3
Hours		6
Semester 3		
COM DSGN 132	Publication Design	3
COM DSGN 250	Graphic Design II	3
Hours		6
Total Hours		15

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** in earning a degree in Communication Design. It does not represent a contract, nor does it guarantee course availability. If the pathway is followed as outlined, you will earn a Basic Certificate in Print Design.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COM DSGN 101	Introduction to Communication Design	3
Hours		3
Semester 2		
COM DSGN 224	Digital Typography	3

Communication Design: Web Page Design, Basic Certificate



College(s): KK

Program Code: 0193

Communication Design: Web Page Design, Basic Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 102	Website Design I	3
COM DSGN 150	Graphic Design I	3
COM DSGN 202	Website Design II	3
COM DSGN 224	Digital Typography	3
Total Hours		15

COM DSGN 150	Graphic Design I	3
Hours		6
Semester 3		
COM DSGN 102	Website Design I	3
Hours		3
Semester 4		
COM DSGN 202	Website Design II	3
Hours		3
Total Hours		15

Choose your courses with your College Advisor.

Pathway

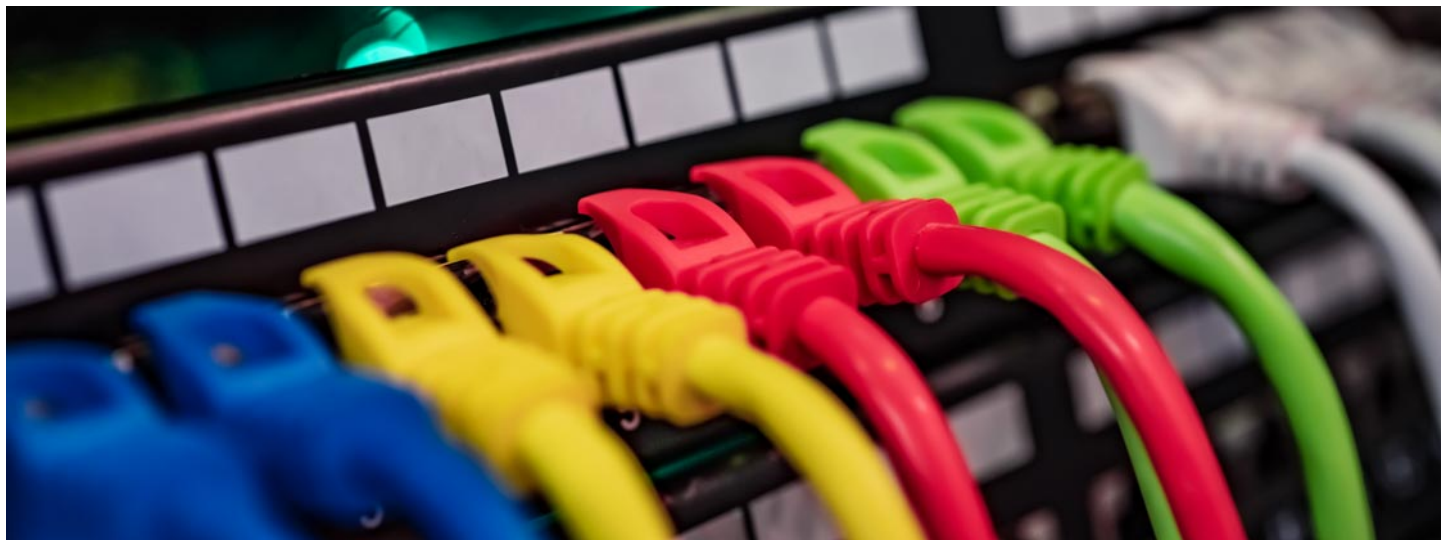
This is an **example course sequence** in earning a degree in Communication Design. It does not represent a contract, nor does it guarantee course availability. If the pathway is followed as outlined, you will earn a Basic Certificate in Web Page Design.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COM DSGN 101	Introduction to Communication Design	3
Hours		3
Semester 2		
COM DSGN 224	Digital Typography	3

Communications Technology, Advanced Certificate



College(s): DA

Program Code: 0709

The Advanced Certificate program in Communications Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Communications Journeyman and Apprentices install and maintain structured wiring and electronic systems in the residential, commercial, and industrial settings.

Program Requirements

Code	Title	Hours
Required Program Core		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 709	Print Reading II	3
432IBEW 714	Technical Math I	3
432IBEW 715	Technical Math II	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
432IBEW 718	Integrated Systems I	3.5
432IBEW 721	Fiber Optics	3.5
432IBEW 726	Low Voltage Systems Communications	3.5
Total Hours		36.5

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
Hours		20
Semester 2		
432IBEW 718	Integrated Systems I	3.5
432IBEW 726	Low Voltage Systems Communications	3.5
432IBEW 721	Fiber Optics	3.5
432IBEW 715	Technical Math II	3
432IBEW 709	Print Reading II	3
Hours		16.5
Total Hours		36.5

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Communications Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Communications Technology.

Communications Technology, Associate in Applied Science



College(s): DA

Program Code: 0750

The Associate in Applied Science degree program in Communications Technology is a cooperative effort between Richard J. Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT) which is made up of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local Union 134. Through the joint effort of the college and EJATT, the program is dedicated to consistently provide state-of-the-art education and training to apprentices, and through them to the residential and commercial building contractors in the Chicagoland area. This commitment to both the individual and industry requires not only providing electricians for today's market, but also for tomorrow's market and future technologies.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
432IBEW 714	Technical Math I	3
Any Psychology, History, or related course		9
Required Program Core		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 709	Print Reading II	3
432IBEW 711	Communications	4
432IBEW 715	Technical Math II	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
432IBEW 718	Integrated Systems I	3.5

432IBEW 719	Integrated Systems II	4.5
432IBEW 720	Communication Systems Verification	3.5
432IBEW 721	Fiber Optics	3.5
432IBEW 722	Computer Networking	4.5
432IBEW 726	Low Voltage Systems Communications	3.5
Total Hours		65

1

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Communications Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC), and Associate in Applied Science (AAS) degree in Communications Technology.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
Hours		20
Semester 2		
432IBEW 718	Integrated Systems I	3.5
432IBEW 726	Low Voltage Systems Communications	3.5
432IBEW 721	Fiber Optics	3.5
432IBEW 715	Technical Math II	3

432IBEW 709	Print Reading II	3
	Hours	16.5
Semester 3		
432IBEW 719	Integrated Systems II	4.5
432IBEW 711	Communications	4
432IBEW 720	Communication Systems Verification	3.5
432IBEW 722	Computer Networking	4.5
	Hours	16.5
Semester 4		
ENGLISH 101	Composition ¹	3
	Any Psychology, History, or related course ^{1,2}	9
	Hours	12
	Total Hours	65

1

General Education Requirement

2

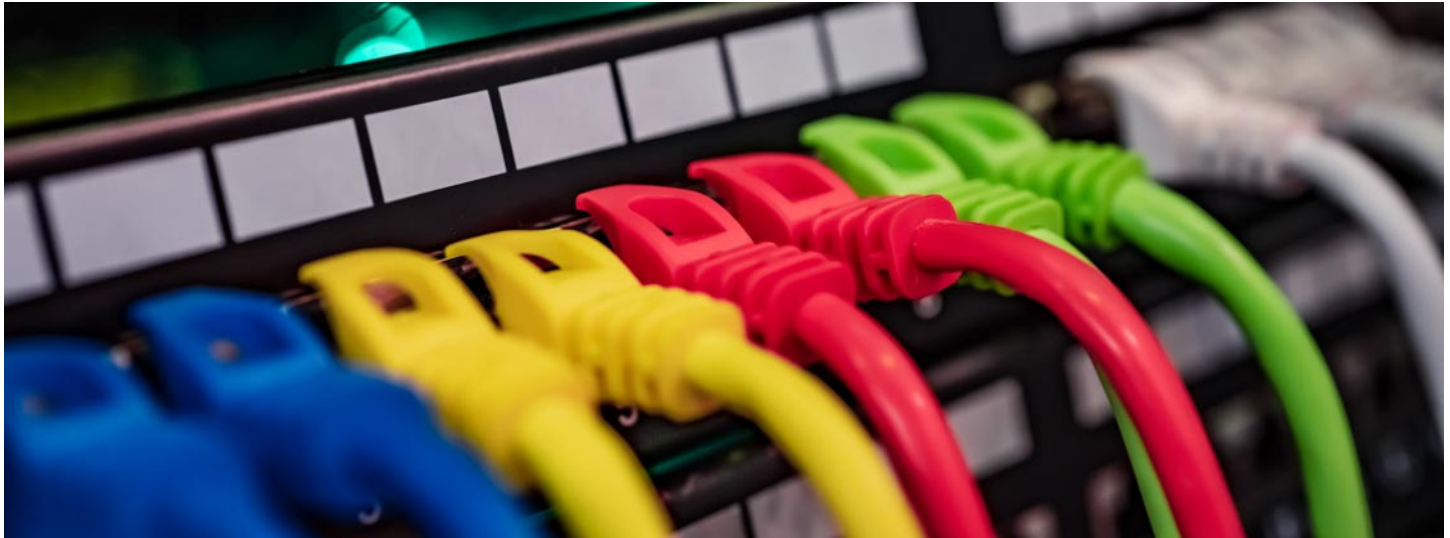
At least one course must be HD

Choose your courses with your College Advisor.

Applicant requirements:

- Graduates of an accredited high school or have acceptable scores on the General Education Development (GED) test. Foreign and domestic high school education or domestic GED must be validated by official transcripts. Official transcripts will be accepted in place of the high school diploma if the graduation date is provided.
- At least 18 years old prior to application.
- Have taken two semesters of high school or college algebra and earned a minimum C grade in each semester prior to application. An official transcript is required.
- Be physically able, as determined by a physician, to safely perform the tasks of a construction electrician. A drug test is required.
- Have evidence of a qualifying grade on an aptitude test prescribed by the EJATT Local Union 134. The aptitude test covers English and Mathematics comprehension, along with a spatial ability evaluation.

Communications Technology, Basic Certificate



College(s): DA

Program Code: 0704

The Basic Certificate program in Communications Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Communications Journeymen and Apprentices install and maintain structured wiring and electronic systems in residential, commercial, and industrial settings.

432IBEW 717	Structured Wiring	4.5
Hours		20
Total Hours		20

Choose your courses with your College Advisor.

Program Requirements

Code	Title	Hours
Required Program Core		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
Total Hours		20

Pathway

This is an **example course sequence** for students interested in pursuing Communications Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Communications Technology.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
432IBEW 716	Electronics	4.5

Community Health Care Worker, Advanced Certificate

College(s): MX*

Program Code: 0717

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other Healthcare offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CHW 107	Health and the Public	3
CHW 110	Public Health and Global Societies	3
CHW 120	Public Health Study of Disease & Epidemics	3
CHW 121	Introduction to Community Health Work	3
CHW 125	Nutrition, Exercise and Disease	3
CHW 126	Human Development Overview	4
CHW 130	Mental Health Issues	3
CHW 132	Field Experience	4
CHLD DV 101	Human Growth & Development I	4
Total Hours		30

Community Health Care Worker, Associate in Applied Science

College(s): MX*

Program Code: 0716

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other Healthcare offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
BIOLOGY 115	Human Biology	4
Humanities ¹		3
MATH 118	General Education Math	4
Additional General Education course		3
Required Program Core		
CHW 107	Health and the Public	3
CHW 110	Public Health and Global Societies	3
CHW 120	Public Health Study of Disease & Epidemics	3
CHW 121	Introduction to Community Health Work	3
CHW 125	Nutrition, Exercise and Disease	3
CHW 126	Human Development Overview	4
CHW 127	Portfolio Development	3
CHW 128	Adult and Senior Health	3
CHW 129	Substance Abuse Issues	3
CHW 130	Mental Health Issues	3
CHW 131	Case Management Fundamentals	3
CHW 132	Field Experience	4
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
Total Hours		62

1

Only HUM 201 General Course I Humanities, HUM 202 General Course II Humanities, HUM 205 World Literature I, HUM 207 The Great Books, HUM 210 Comparative Mythology, or HUM 212 Non-Western Humanities will fulfill the above requirement.

At least one course must meet the Human Diversity (HD) requirement.

Community Health Care Worker, Basic Certificate



College(s): DA, MX

Program Code: 0718

The Community Health Care Worker program is designed to focus on competencies universally required for primary and preventive health care. The curriculum also serves students who may wish to enter into a nursing program or other allied health professions. Research shows that many health educator programs at the university level (bachelor, masters) require as a core curriculum the same knowledge and competence areas incorporated into this program.



Program Requirements

Code	Title	Hours
Required Program Core		
CHW 120	Public Health Study of Disease & Epidemics	3
CHW 121	Introduction to Community Health Work	3
CHW 125	Nutrition, Exercise and Disease	3
CHW 130	Mental Health Issues	3
CHW 132	Field Experience	4
Total Hours		16

Pathways

Semester-by-Semester Program Plan for Full-Time Students - MX

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CHW 120	Public Health Study of Disease & Epidemics	3
CHW 121	Introduction to Community Health Work	3
CHW 125	Nutrition, Exercise and Disease	3
CHW 130	Mental Health Issues	3
CHW 132	Field Experience	4
Hours		16
Total Hours		16

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - DA

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Fall		
Semester 1		
CHW 121	Introduction to Community Health Work	3
CHW 130	Mental Health Issues	3
Hours		6
Spring		
Semester 2		
CHW 120	Public Health Study of Disease & Epidemics	3
CHW 125	Nutrition, Exercise and Disease	3
Hours		6
Summer		
Semester 3		
CHW 132	Field Experience	4
Hours		4
Total Hours		16

Choose your courses with your College Advisor.

Computer Information Systems, Advanced Certificate

College(s): DA*, HW*, KK*, MX*, OH*, TR*, WR*

Program Code: 0013

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other IT offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 250	Systems Analysis and Design	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
Select a minimum of 9 credit hours of the following or others as recommended by a College Advisor:		9
CIS 103	Fundamentals of Programming	
CIS 120	Introduction to Computer Applications	
CIS 122	Intro to Word Processing on Microcomputers	
CIS 142	C++ Object Oriented Programming I	
CIS 144	Java Object Oriented Programming I	
CIS 145	Database Management	
CIS 158	Web Development I	
CIS 181	Web Development I/Basic Web Technologies	
CIS 182	Web Development II/Client Side Scripting	
CIS 235	Advanced COBOL Programming	
CIS 244	Java Object Oriented Programming II	
CIS 258	Web Development II	
Electives		
Students should meet with a College Advisor for selection of elective courses.		7
Total Hours		30

Computer Information Systems, Associate in Applied Science

College(s): DA*, HW*, KK*, MX*, OH*, TR*, WR*

Program Code: 0011

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other IT offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101		3
Additional General Education Courses ^{1,2}		12
Required Program Core		
CIS 101	Computer Science 101	3
CIS 120	Introduction to Computer Applications	3
CIS 250	Systems Analysis and Design	3
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
MATH 118	General Education Math (or higher)	4
Select a minimum of 12 credit hours of the following:		12
CIS 103	Fundamentals of Programming	
CIS 122	Intro to Word Processing on Microcomputers	
CIS 142	C++ Object Oriented Programming I	
CIS 144	Java Object Oriented Programming I	
CIS 145	Database Management	
CIS 158	Web Development I	
CIS 181	Web Development I/Basic Web Technologies	
CIS 182	Web Development II/Client Side Scripting	
CIS 244	Java Object Oriented Programming II	
CIS 258	Web Development II	
Electives		
Students should meet with a College Advisor for selection of elective courses.		9
Total Hours		60

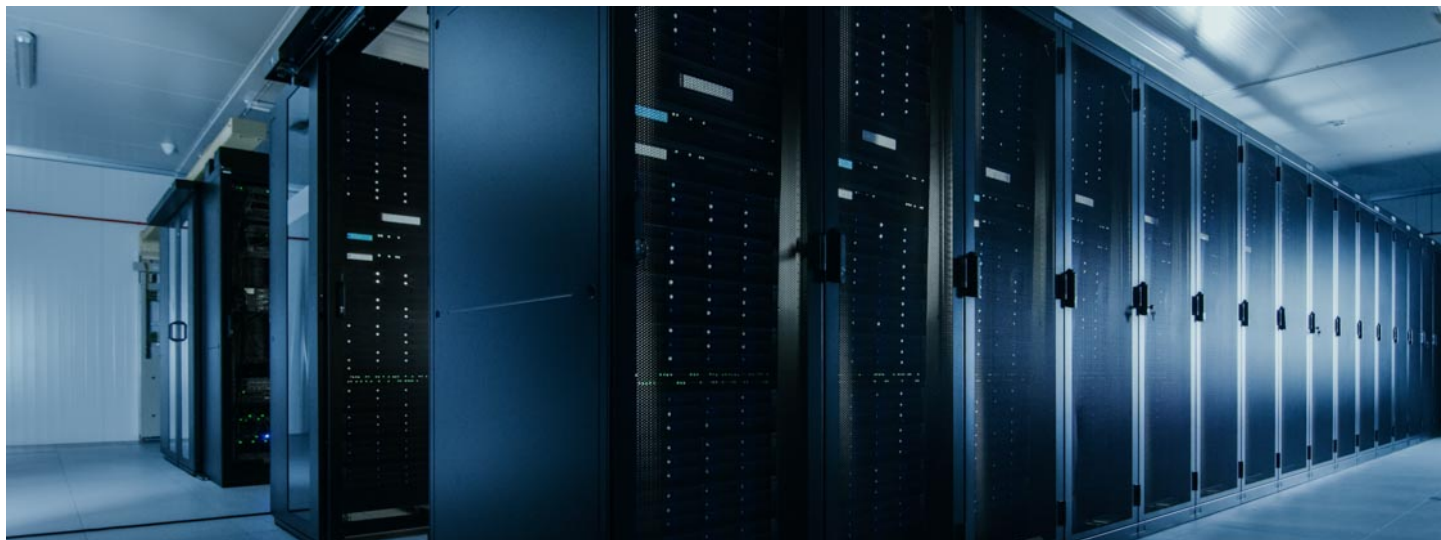
1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement.

Computer Information Systems, Basic Certificate



College(s): DA*, KK*, MX*, OH*, TR, WR*

Program Code: 0012

**Beginning Summer 2016, this program is no longer accepting new students at DA, KK, MX, OH, or WR. Please refer to CCC's other IT offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 120	Introduction to Computer Applications	3
Electives		
Select a minimum of 6 credit hours of the following or others as recommended by a College Advisor:		6
CIS 103	Fundamentals of Programming	
CIS 122	Intro to Word Processing on Microcomputers	
CIS 142	C++ Object Oriented Programming I	
CIS 144	Java Object Oriented Programming I	
CIS 145	Database Management	
CIS 158	Web Development I	
CIS 181	Web Development I/Basic Web Technologies	
CIS 182	Web Development II/Client Side Scripting	
CIS 244	Java Object Oriented Programming II	
CIS 258	Web Development II	
Total Hours		12

Computer Numeric Control Machining, Advanced Certificate



College(s): DA*, WR

Program Code: 0725

**This program is no longer accepting new students at Daley College. Please see the CNC Engineering Technology AC (p. 97) program.*

The Advanced Certificate program in Computerized Numerical Control is designed for the study of the basic principles of machine tool technology incorporating basic computer applications to the manufacturing industry, including CNC programming and computer integrated manufacturing (CAD/CAM). The Advanced Certificate program prepares students for roles as CNC tool programmers, operators, setters, as well as tool and die setters. The program is appropriate for career changers, high school graduates, general education diploma holders, and machining workers with a need to enhance their careers.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
340MFGT 123	CNC Milling Operations & Programming	3
340MFGT 137	CNC Turning Operations & Programming	3
340MFGT 138	Intro to Solidworks	3
340MFGT 139	Print Requirements-Quality Assurance	3
340MFGT 140	CNC Fundamentals	3
340MFGT 143	Advanced Metrology	3
340MFGT 144	Wire Electrical Discharge Machining	3
340MFGT 207	Introduction to MASTERCAM	3
Total Hours		37

Pathway

This is an **example** course sequence for students interested in earning a certificate in Computerized Numerical Control (CNC) Machining. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate and an Advanced Certificate (AC) in Computerized Numerical Control (CNC) Machining.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

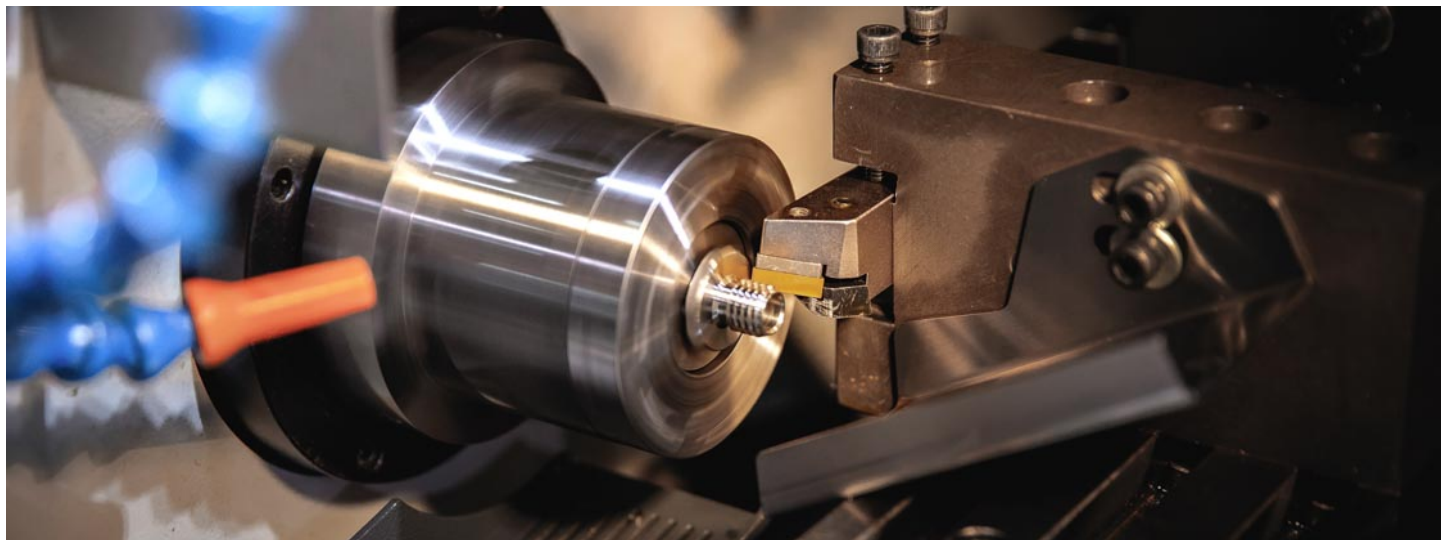
Course	Title	Hours
Semester 1		
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
340MFGT 139	Print Requirements-Quality Assurance	3
Hours		9
Semester 2		
340MFGT 138	Intro to Solidworks	3
340MFGT 140	CNC Fundamentals	3
340MFGT 143	Advanced Metrology	3
MATH 125	Introductory Statistics	4
Hours		13
Semester 3		
340MFGT 123	CNC Milling Operations & Programming	3
340MFGT 137	CNC Turning Operations & Programming	3
340MFGT 144	Wire Electrical Discharge Machining	3
340MFGT 207	Introduction to MASTERCAM	3
Hours		12

Semester 4

ENGLISH 101	Composition	3
	Hours	3
	Total Hours	37

Choose your courses with your College Advisor.

Computer Numeric Control Machining, Basic Certificate



College(s): DA*, WR

Program Code: 0724

**This program is no longer accepting new students at Daley College. Please see the CNC Technology BC (p. 101) program.*

The Basic Certificate in CNC Machining provides students with the skills and knowledge to set up and operate CNC lathes and mills. Certificate completers will be able to gain entry-level jobs as CNC machine operators or machinist trainees. The BC program prepares students for roles as CNC tool programmers, operators, setters, as well as tool and die setters. The program is appropriate for career changers, high school graduates, general education diploma holders, and machining workers with a need to enhance their careers.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
340MFGT 123	CNC Milling Operations & Programming	3
340MFGT 137	CNC Turning Operations & Programming	3
340MFGT 140	CNC Fundamentals	3
Program Electives		
INTDSP 102	Career Development and Decision Making	1
Total Hours		16

Pathway

This is an **example** course sequence for students interested in earning a certificate Computerized Numerical Control (CNC) Machining. It does

not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Computerized Numerical Control (CNC) Machining.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
INTDSP 102	Career Development and Decision Making (Required)	1
		Hours
		7
Semester 2		
340MFGT 140	CNC Fundamentals	3
		Hours
		3
Semester 3		
340MFGT 123	CNC Milling Operations & Programming	3
340MFGT 137	CNC Turning Operations & Programming	3
		Hours
		6
Total Hours		16

Choose your courses with your College Advisor.

Computer Numeric Control Technician, Basic Certificate



College(s): DA*

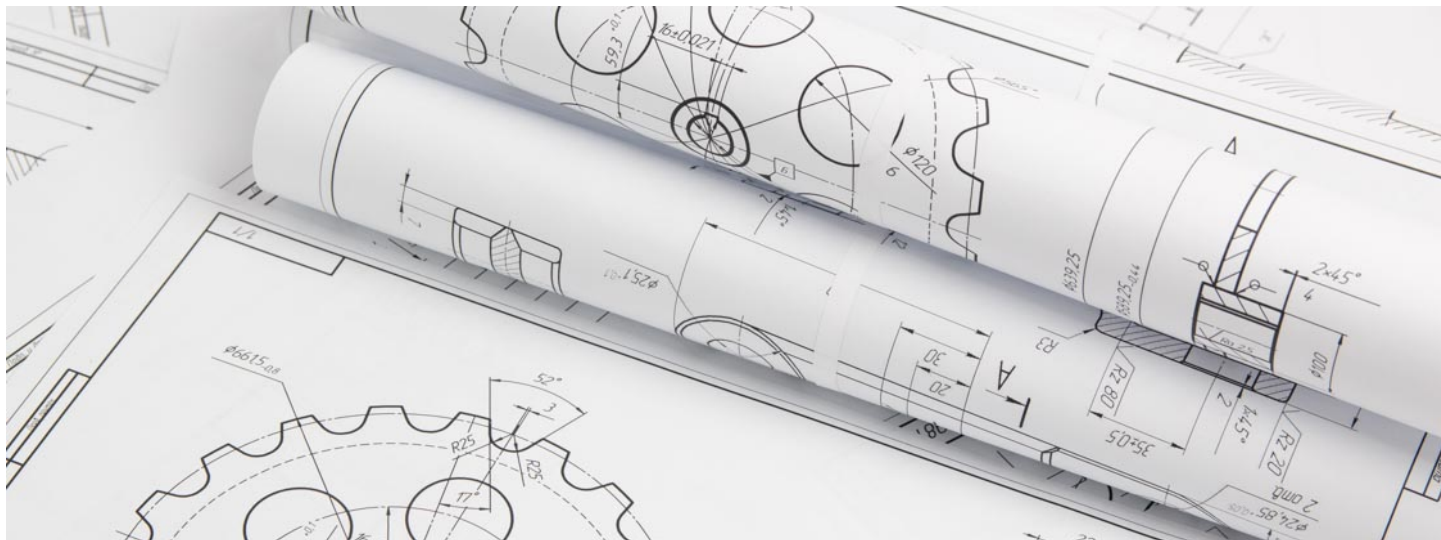
Program Code: 0826

**Beginning Summer 2017, this program is no longer accepting new students.
Please refer to CCC's other Advanced Manufacturing offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 126	Machining Processing I	3
STTRDE 127	Machining Processes II	3
STTRDE 128	Computer Numerical Control Fundamentals	3
STTRDE 129	CNC Milling Operations & Programming	3
STTRDE 130	CNC Turning Operations & Programming	3
Total Hours		15

Computer-Aided Drafting (CAD) Technology, Advanced Certificate



College(s): TR

Program Code: 0138

The Advanced Certificate program in Computer-Aided Design (CAD) Technology provides the technical instruction and skill development for the graduate to become successfully employed in the drafting fields of the mechanical, architectural, and construction industry. Instruction is directed toward theoretical and technical skills in the use of modern drafting tools and equipment with emphasis placed on the training of CAD techniques.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGR 100	Elements of Engineering Drawing	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 132	Descriptive Geometry	3
ENGR 190	Computer Programming for Engineers	3
ENGR 202	Advanced Drafting & Basic Machine Design	3
MATH 140	College Algebra	4
MATH 141	Plane Trigonometry	3
CAD TEC 130	CAD Technology I	3
CAD TEC 170	CAD Technology II	3
CAD TEC 171	CAD Technology III	3
CAD TEC 172	CAD Technology IV	3
Total Hours		34

pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in CAD Technology.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

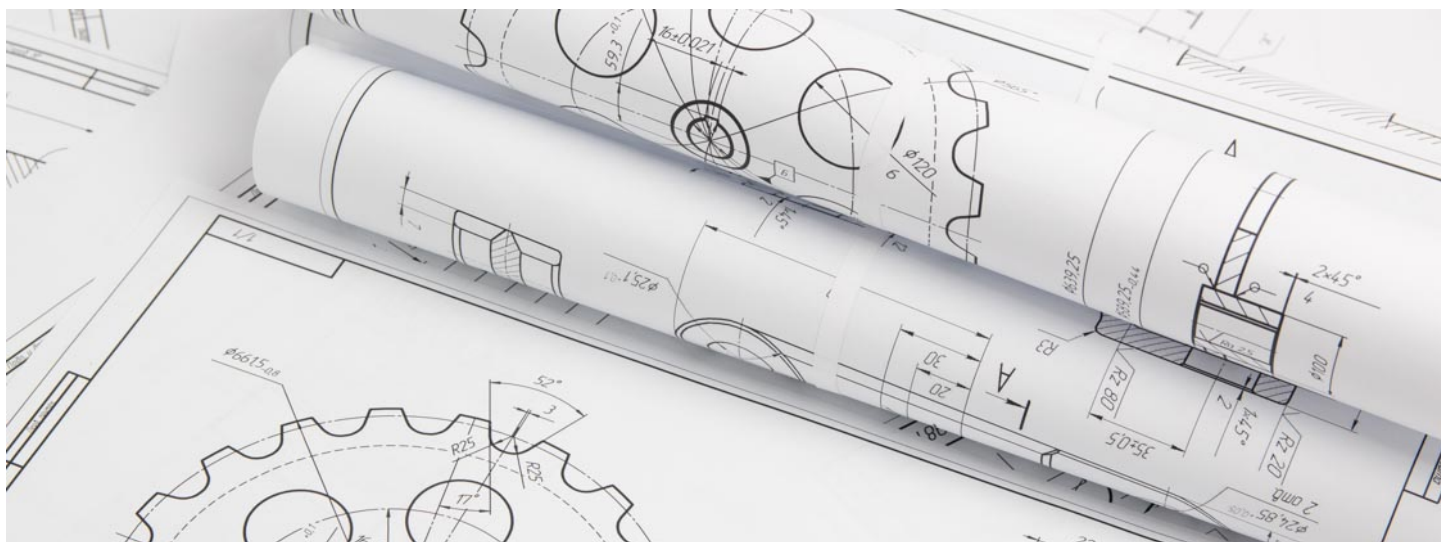
Course	Title	Hours
Semester 1		
CAD TEC 130	CAD Technology I	3
MATH 140	College Algebra	4
ENGR 100	Elements of Engineering Drawing	3
	Hours	10
Semester 2		
MATH 141	Plane Trigonometry	3
ENGR 131	Engineering Graphics & Intro to Design	3
CAD TEC 170	CAD Technology II	3
	Hours	9
Semester 3		
CAD TEC 171	CAD Technology III	3
ENGR 202	Advanced Drafting & Basic Machine Design	3
ENGR 132	Descriptive Geometry	3
	Hours	9
Semester 4		
CAD TEC 172	CAD Technology IV	3
ENGR 190	Computer Programming for Engineers	3
	Hours	6
	Total Hours	34

Pathway

This is an **example** course sequence for students interested in earning an advanced certificate in Computer-Aided Design (CAD) Technology. It does not represent a contract, nor does it guarantee course availability. If this

Choose your courses with your College Advisor.

Computer-Aided Drafting (CAD) Technology, Associate in Applied Science



College(s): TR

Program Code: 0144

The Associate in Applied Science degree program in Computer-Aided Design (CAD) Technology provides the technical instruction and skill development for the graduate to become successfully employed in the drafting fields of the mechanical, architectural, and construction industry. Instruction is directed toward theoretical and technical skills in the use of modern drafting tools and equipment with emphasis placed on the training of CAD techniques.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 140	College Algebra	4
PHYSICS 231	General Physics I: Mechanics & Wave Motion	4
	Fine Arts & Humanities course	3
CIS 120	Introduction to Computer Applications	3
Required Program Core		
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 123	Microcomputer Spreadsheets	3
ENGR 100	Elements of Engineering Drawing	3
ENGR 110	Introductory Drafting	2
ENGR 111	Engineering Success Seminar	2
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 132	Descriptive Geometry	3
ENGR 190	Computer Programming for Engineers	3
ENGR 202	Advanced Drafting & Basic Machine Design	3

MATH 141	Plane Trigonometry	3
CAD TEC 130	CAD Technology I	3
CAD TEC 170	CAD Technology II	3
CAD TEC 171	CAD Technology III	3
CAD TEC 172	CAD Technology IV	3
Total Hours		60

One course must fulfill the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Computer-Aided Design (CAD) Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science degree (AAS) in CAD Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CAD TEC 130	CAD Technology I	3
MATH 140	College Algebra ¹	4
ENGR 100	Elements of Engineering Drawing	3
ENGR 110	Introductory Drafting	2
Hours		15
Semester 2		
MATH 141	Plane Trigonometry	3

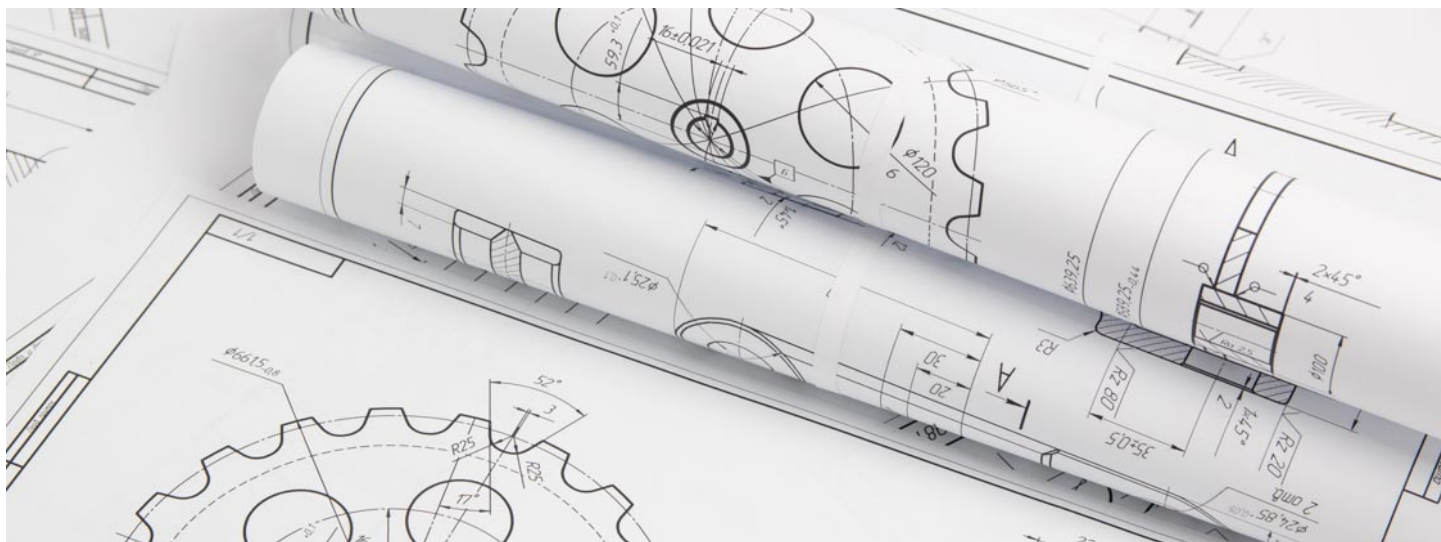
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 111	Engineering Success Seminar	2
CAD TEC 170	CAD Technology II	3
CIS 103	Fundamentals of Programming	3
Hours		14
Semester 3		
CAD TEC 171	CAD Technology III	3
ENGR 202	Advanced Drafting & Basic Machine Design	3
ENGR 132	Descriptive Geometry	3
Fine Arts & Humanities course (HD) ¹		3
CIS 120	Introduction to Computer Applications ¹	3
Hours		15
Semester 4		
CAD TEC 172	CAD Technology IV	3
ENGR 190	Computer Programming for Engineers	3
PHYSICS 231	General Physics I: Mechanics & Wave Motion ¹	4
CIS 123	Microcomputer Spreadsheets	3
CIS 116	Operating System I	3
Hours		16
Total Hours		60

1

General Education Requirement

Choose your courses with your College Advisor.

Computer-Aided Drafting (CAD) Technology, Basic Certificate



College(s): TR

Program Code: 0139

Computer-Aided Drafting (CAD) Technology, Basic Certificate



Program Requirements

Code	Title	Hours
Required Program Core		
CAD TEC 130	CAD Technology I	3
CAD TEC 170	CAD Technology II	3
CAD TEC 171	CAD Technology III	3
CAD TEC 172	CAD Technology IV	3
Select one of the following:		4
MATH 140	College Algebra	
COOP EX 208	Engineering & Industrial Technologies CWE (Cooperative Work Experience)	
Total Hours		16

Course	Title	Hours
Semester 1		
CAD TEC 130	CAD Technology I	3
MATH 140 or COOP EX 208	College Algebra or Engineering & Industrial Technologies CWE	4
Hours		7
Semester 2		
CAD TEC 170	CAD Technology II	3
Hours		3
Semester 3		
CAD TEC 171	CAD Technology III	3
Hours		3
Semester 4		
CAD TEC 172	CAD Technology IV	3
Hours		3
Total Hours		16

Choose your courses with your College Advisor.

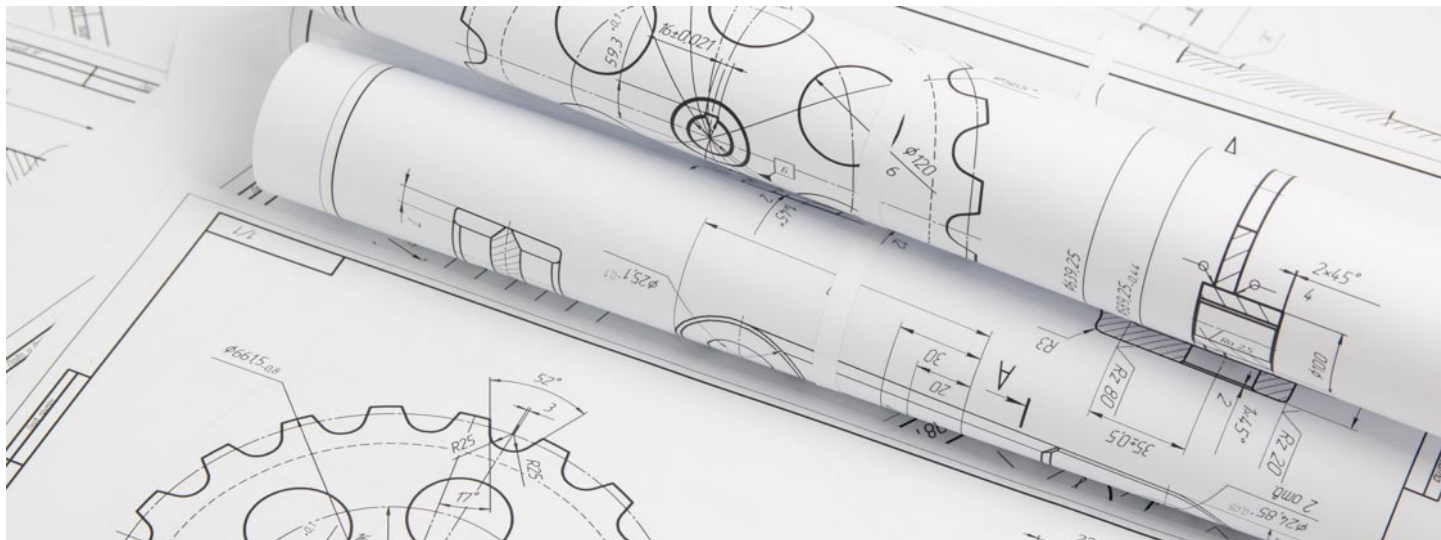
Pathway

This is an **example course sequence** for students interested in earning a degree in Computer-Aided Design (CAD) Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in CAD Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Computer-Aided Drafting Engineering Technology, Advanced Certificate



College(s): DA

Program Code: 0456

Students in this program are prepared for careers in industrial drafting and design of industrial components. Companies that manufacture physical products and that have production process equipment need their products, facilities and equipment drawn, detailed and designed prior to their manufacture or installation. Students gain an overview of manufacturing processes through hands on lab classes in CNC machining, welding and electrical controls as well as Computer Aided design program training and conversion of 3D designs into CNC programs and rapid prototyping of designs.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 170	CAD I	3
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 270	CAD II Detailing	3
Total Hours		30

as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology and an Advanced Certificate (AC) in CNC Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

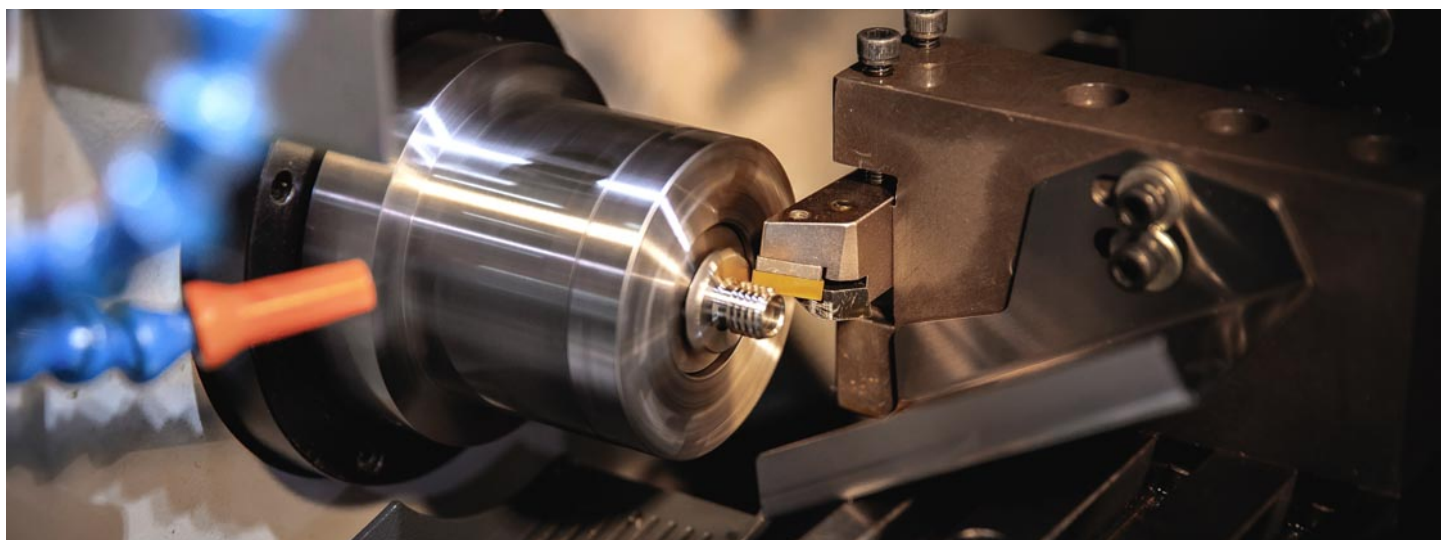
All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
	Hours	15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3
340MFGT 170	CAD I	3
340MFGT 171	Automated Metrology-Quality Assurance	3
	Hours	12
Semester 3		
340MFGT 270	CAD II Detailing	3
	Hours	3
	Total Hours	30

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed

Computer-Aided Drafting Engineering Technology, Associate in Applied Science



College(s): DA

Program Code: 0457

Students in the Computer-Aided Drafting Engineering Technology Associate in Applied Science (AAS) program are prepared for careers in industrial drafting and design of industrial components. Companies that manufacture physical products and that have production process equipment need their products, facilities and equipment drawn, detailed and designed prior to their manufacture or installation. Students gain an overview of manufacturing processes through hands on lab classes in CNC machining, welding and electrical controls as well as Computer Aided design program training and conversion of 3D designs into CNC programs and rapid prototyping of designs. Students will take classes in materials and maintenance technologies to have a well rounded background to base their drafting designs on utilizing their hands on experience with industrial equipment. Students are able to progress onto Bachelor's programs if they desire to further their education in this specialty.

Program Requirements

Code	Title	Hours
General Education Requirements ¹		
MATH 140	College Algebra	4
ENGLISH 101	Composition	3
Social and Behavioral Sciences		3
Fine Arts/Humanities		3
Physical Sciences/Life Sciences		3
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3

340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 170	CAD I	3
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 188	Industrial Electricity I	3
340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 270	CAD II Detailing	3
340MFGT 274	Materials II - Testing and Analysis	3
340MFGT 287	Maintenance Technologies I	3
340MFGT 290	Process Technology I	3
Total Hours		61

¹

At least one course must meet the Human Diversity (HD) (p. 438) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology, and an Advanced Certificate (AC) and Associate in Applied Science (AAS) in Computer-Aided Drafting Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3
340MFGT 170	CAD I	3
340MFGT 188	Industrial Electricity I	3
ENGLISH 101	Composition ¹	3
Hours		15
Semester 3		
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 270	CAD II Detailing	3
340MFGT 290	Process Technology I	3
Social and Behavioral Sciences course (HD) ¹		3
MATH 140	College Algebra ¹	4
Hours		16
Semester 4		
340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 274	Materials II - Testing and Analysis	3
340MFGT 287	Maintenance Technologies I	3
Fine Arts/Humanities course (HD) ¹		3
Physical Sciences/Life Sciences course ¹		3
Hours		15
Total Hours		61

¹

General Education course

Choose your courses with your College Advisor.

Construction Carpentry, Basic Certificate



College(s): KK

Program Code: 0775

The Basic Certificate in Construction Carpentry prepares students for an entry level apprentice position with a construction contractor. The program provides instruction in tool safety and usage, construction materials, work site safety, blueprint reading, and mathematical concepts. Course content also includes an introduction to the trades and basic ARC welding. Theory and practical “hands-on” application are emphasized throughout the program. Students will receive the OSHA Construction Safety and Health 10-hour Certification and Scaffold Certification upon successful completion of the program.



Program Requirements

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 410	Interior Construction I	4
332TECH 429	Basic Math & Specifications	2
332TECH 432	Basic Arc Welding	1
332TECH 448	Vocational Physical Training I	1
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
332TECH 581	Concrete Framing	2
332TECH 582	Residential Carpentry	2
332TECH 583	Basic Hand Tools	2
332TECH 767	Blueprint Reading I	2
330BSCM 532	Basic Computer Technology	1
Total Hours		20

Pathway

This is an **example course sequence** for students interested in Construction Carpentry. If this pathway is followed as outlined, student will earn a Basic Certificate (BC) for Construction Carpentry. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 409	Construction Safety	1
332TECH 448	Vocational Physical Training I	1
332TECH 429	Basic Math & Specifications	2
332TECH 583	Basic Hand Tools	2
330BSCM 532	Basic Computer Technology	1
PHASE 2		
332TECH 462	Vocational Physical Training II	1
332TECH 767	Blueprint Reading I	2
332TECH 581	Concrete Framing	2
332TECH 432	Basic Arc Welding	1
PHASE 3		
332TECH 410	Interior Construction I	4
332TECH 463	Vocational Physical Training III	1
332TECH 582	Residential Carpentry	2
Hours		20
Total Hours		20

Choose your courses with your College Advisor.

Construction Management, Associate in Applied Science



College(s): KK

Program Code: 0375

The Associate in Applied Science degree program in Construction Management prepares students to receive the education, training, and business knowledge necessary for employment in the construction industry. The program offers classroom and lab experiences led by instructors who are experienced as superintendents or project managers for some of the largest construction firms in the country.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
BUSINES 181	Financial Accounting	4
BUSINES 269	Principles Of Management	3
CIS 120	Introduction to Computer Applications	3
432CMGT 601	Introduction to Construction	2
432CMGT 602	Methods of Building Construction	3
432CMGT 603	Building Materials and Testing	3
432CMGT 604	Blueprint and Specifications	3
432CMGT 605	Construction Cost Estimating	3
432CMGT 606	Construction Contracting Specs	3
432CMGT 607	Construction Scheduling/Management	3
432CMGT 608	Project Management	3
432CMGT 609	Construction Safety II	3
ENGLISH 107	Report Writing	3
332TECH 449	Professional Development	2

Program Electives

Students should meet with a College Advisor for selection of elective courses. 9

Total Hours 65

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in earning a degree in Construction Management. If the pathway is followed as outlined, student will earn an Associate in Applied Science degree. Courses may be substituted within the indicated categories (except Communications courses).

This pathway is a suggested set of courses that will allow you to earn an Associate in Applied Science (AAS) in Construction Management degree from the City Colleges of Chicago. This degree is required for construction managers. Construction management and technology is a broad field and this degree will prepare you for well-paying management positions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
BUSINES 111	Introduction To Business ²	3
CIS 120	Introduction to Computer Applications	3

432CMGT 601	Introduction to Construction	2
432CMGT 602	Methods of Building Construction	3
Any Art, Music, or Theater Art course ¹		3
Hours		17
Semester 2		
432CMGT 603	Building Materials and Testing	3
432CMGT 604	Blueprint and Specifications	3
Mathematics or Life Sciences or Physical Sciences course ¹		3-4
BUSINES 181	Financial Accounting	4
Social and Behavioral Sciences course ¹		3
Hours		16-17
Semester 3		
Additional General Education course (HD) ¹		3
432CMGT 605	Construction Cost Estimating	3
432CMGT 606	Construction Contracting Specs	3
ENGLISH 107	Report Writing	3
BUSINES 269	Principles Of Management	3
332TECH 449	Professional Development	2
Hours		17
Semester 4		
432CMGT 607	Construction Scheduling/Management	3
432CMGT 608	Project Management	3
432CMGT 609	Construction Safety II	3
Elective ²		3
Elective ²		3
Hours		15
Total Hours		65-66

1

General Education Requirements

2

Students should meet with a College Advisor for selection of elective courses.

Choose your courses with your College Advisor.

Construction Masonry, Basic Certificate



College(s): KK

Program Code: 0759

The Basic Certificate in Construction Masonry is designed to prepare students for employment in the residential and commercial masonry sector of the construction industry. Through theory, lectures and hands on work, students are trained in the skills needed to gain proficiency in brick, concrete, stonework, block and form work. With training on the proper use and maintenance of tools and job safety, completion of this certificate will prepare students for a career as an industry apprentice, journeyman mason, job site foreman, or contractor.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 427	Masonry Tools & Equipment	2
332TECH 428	Mortar	3
332TECH 429	Basic Math & Specifications	2
332TECH 430	Masonry Installations Procedures	3
332TECH 440	Introduction to Construction Masonry	4
332TECH 448	Vocational Physical Training I	1
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
332TECH 767	Blueprint Reading I	2

330BSCM 532	Basic Computer Technology	1
Total Hours		21

Pathway

This is an **example course sequence** for students interested in earning the Basic Certificate (BC) in Construction Masonry. If this pathway is followed as outlined, you will earn a BC. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 409	Construction Safety	1
332TECH 427	Masonry Tools & Equipment	2
332TECH 429	Basic Math & Specifications	2
332TECH 440	Introduction to Construction Masonry	4
332TECH 448	Vocational Physical Training I	1
PHASE 2		
332TECH 428	Mortar	3
332TECH 462	Vocational Physical Training II	1
332TECH 767	Blueprint Reading I	2
PHASE 3		
330BSCM 532	Basic Computer Technology	1
332TECH 430	Masonry Installations Procedures	3

332TECH 463	Vocational Physical Training III	1
	Hours	21
	Total Hours	21

Choose your courses with your College Advisor.

Cosmetology Teacher Training 1000-Hour Program, Basic Certificate



College(s): TR

Program Code: 0415

The purpose of the Cosmetology Teacher Training Program is to provide students the opportunity to prepare, train and develop skills necessary to teach cosmetology or any practices related to the Cosmetology industry. This training will allow individuals to enter a skilled workforce which will promote personal and economic growth, contribute to community stability and provide and improve quality of life. This course is intended for any person who has an active State of Illinois Cosmetology License and is pursuing to further their education by obtaining a Cosmetology Teacher's License.

Program Requirements

Code	Title	Hours
Required Program Core		
COSMET 211	Post-Graduate Cosmetology Training I	6
COSMET 212	Post-Graduate Cosmetology Training II	6
Required Work-Based Learning Courses		
COSMET 223	Basic Teaching Skills for Career Education Instructors	8
COSMET 224	Principles and Practice in Cosmetology Education	8
Total Hours		28

Pathway

This is an **example course sequence** for students interested in pursuing a Basic Certificate (BC) in Cosmetology Teacher Training 1000-Hour Program. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COSMET 211	Post-Graduate Cosmetology Training I	6
COSMET 212	Post-Graduate Cosmetology Training II	6
Hours		12
Semester 2		
COSMET 223	Basic Teaching Skills for Career Education Instructors	8
COSMET 224	Principles and Practice in Cosmetology Education	8
Hours		16
Total Hours		28

Choose your courses with your College Advisor.

Cosmetology Teacher Training 500-Hour Program, Basic Certificate



College(s): TR

Program Code: 0416

The purpose of the Cosmetology Teacher Training Program is to provide students the opportunity to prepare, train and develop skills necessary to teach cosmetology or any practices related to the Cosmetology industry. This training will allow individuals to enter a skilled workforce which will promote personal and economic growth, contribute to community stability and provide and improve quality of life. This course is intended for any person who has an active State of Illinois Cosmetology License and is pursuing to further their education by obtaining a Cosmetology Teacher's License.

Course	Title	Hours
Semester 1		
COSMET 223	Basic Teaching Skills for Career Education Instructors	8
COSMET 224	Principles and Practice in Cosmetology Education	8
Hours		16
Total Hours		16

Choose your courses with your College Advisor.

Program Requirements

Code	Title	Hours
Required Work-Based Learning Courses		
COSMET 223	Basic Teaching Skills for Career Education Instructors	8
COSMET 224	Principles and Practice in Cosmetology Education	8
Total Hours		16

Pathway

This is an **example course sequence** for students interested in pursuing a Basic Certificate (BC) in Cosmetology Teacher Training. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Cosmetology, Advanced Certificate



College(s): TR

Program Code: 0349

The Advanced Certificate program in the field of Cosmetology offers challenging and rewarding opportunities designed to give students thorough training in the art, skill and applied science used in the treatment of hair, nails, and skin. The program meets the standards of the Illinois Department of Finance and Professional Regulation (IDFPR) in total hours, teaching staff, equipment, facilities, libraries, and course content.

Students are required to complete a specific number of hours in the Technical Center Styling Salon. Once students have completed all coursework and laboratory hours, they are ready to sit for the licensure examination through the IDFPR. Students must be licensed in order to practice Cosmetology in Illinois.

Program Requirements

Code	Title	Hours
Required Program Core		
COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
COSMET 105	Salon Technology I	7
COSMET 106	Salon Technology II	7
COSMET 201	Advanced Cosmetology	6
COSMET 202	Cosmetology Summative Seminar	6
Total Hours		50

Pathway

This is an **example course sequence** for students interested in pursuing an Advanced Certificate (AC) in Cosmetology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
Hours		12
Semester 2		
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
Hours		12
Semester 3		
COSMET 105	Salon Technology I	7
COSMET 106	Salon Technology II	7
Hours		14
Semester 4		
COSMET 201	Advanced Cosmetology	6
COSMET 202	Cosmetology Summative Seminar	6
Hours		12
Total Hours		50

Choose your courses with your College Advisor.

Cosmetology, Associate in Applied Science



College(s): TR

Program Code: 0461

The Associate in Applied Science degree in Cosmetology offers students an opportunity to gain industry knowledge and practice in haircutting, styling, chemical services, skincare, and nailcare. Additionally, students will acquire information about operating and owning a business to best prepare them to assume key consulting positions within the industry and to successfully own and manage their own salon. Training with live models and consultation with beauty-industry professionals are highlights of the program in emphasizing a myriad of career opportunities in the field. Required proficiency exams and exam preparation/reviews are part of the program in meeting the Illinois Department of Professional Regulation (IDFPR) standards. All discipline courses are taught by licensed teaching staff, using standard industry equipment, approved facilities, and quality course content that meets industry requirements.

In the Cosmetology AAS degree program, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses. Additional elective coursework may cover topics in art or theater art to enhance visual acuity and perception in executing hair design and styling.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
	Mathematics course	3
CIS 120	Introduction to Computer Applications	3
	Social and Behavioral Sciences course (HD)	3
BUSINES 111	Introduction To Business	3
	or BUSINES 21 (Entrepreneurship)	
Required Program Core		
COSMET 101	Intro to Cosmetology/Barbering	6

COSMET 102	Hair Cutting Technology	6
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
COSMET 105	Salon Technology I	7
COSMET 106	Salon Technology II	7
COSMET 201	Advanced Cosmetology	6
COSMET 202	Cosmetology Summative Seminar	6
Total Hours		65

Pathway

This is an **example course sequence** for students interested in Cosmetology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) and Associate in Applied Science degree (AAS) in Cosmetology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
COSMET 101	Intro to Cosmetology/Barbering	6
COSMET 102	Hair Cutting Technology	6
ENGLISH 101	Composition ¹	3
		Hours
		15
Semester 2		
COSMET 103	Basic Styling Technology	6
COSMET 104	Basic Chemical Technology	6
CIS 120	Introduction to Computer Applications ¹	3
		Hours
		15

Semester 3		
COSMET 105	Salon Technology I	7
COSMET 106	Salon Technology II	7
Hours		14
Semester 4		
COSMET 203	Advanced Barbering	6
COSMET 204	Barbering Summative Seminar	6
Hours		12
Semester 5		
MATH 118	General Education Math ¹	4
Social and Behavioral Sciences course (HD) ¹		3
BUSINES 111 or BUSINES 216	Introduction To Business ¹ or Entrepreneurship	3
Hours		10
Total Hours		66

1

General Education Requirement

Choose your courses with your College Advisor.

CPA Preparation–Post Baccalaureate, Advanced Certificate



College(s): HW

Program Code: 0418

The CPA Preparation–Post Baccalaureate program will provide 30 hours of accounting coursework with additional specific credits in business ethics, business communications, and research and analysis as required to sit the Uniform CPA examination.

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 284	Business Communications or ENGLISH 10: Business Writing	3
BUSINES 214	The Legal & Social Environment of Business or PHIL 107 Ethics	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 204 & BUSINES 205	Computer Applications Intermediate Accounting and Intermediate Accounting	4
BUSINES 206	Auditing	3
BUSINES 207	Intermediate Accounting II	3
BUSINES 208	Federal Income Tax	3
BUSINES 211	Business Law I or BUSINES 21: Business Law II	3
BUSINES 215	Corporate and Entity Federal Income Tax	3
Program Electives		
Select one of the following:		3
BUSINES 180	Fundamentals Of Accounting	
BUSINES 203	Intro Cost Accounting	
BUSINES 217	Nonprofit Accounting	

BUSINES 218	Advanced Accounting
BUSINES 249	Independent Research
BUSINES 250	Computerized Accounting Systems
BUSINES 299	Special Topics

Total Hours	36
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Pathway

This is an **example course sequence** for students interested in pursuing CPA Preparation–Post Baccalaureate. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate.

Semester-by-Semester Program Plan for Full-Time Student

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 181	Financial Accounting	4
BUSINES 211	Business Law I	3
BUSINES 284	Business Communications	3
		Hours
		10
Semester 2		
BUSINES 182	Managerial Accounting	4
BUSINES 214 or PHIL 107	The Legal & Social Environment of Business or Ethics	3
		Hours
		7
Semester 3		
Select one of the following Electives:		
3		
BUSINES 203	Intro Cost Accounting	
BUSINES 180	Fundamentals Of Accounting	
BUSINES 217	Nonprofit Accounting	

BUSINES 218	Advanced Accounting	
BUSINES 249	Independent Research	
BUSINES 250	Computerized Accounting Systems	
BUSINES 299	Special Topics	
BUSINES 204	Computer Applications Intermediate Accounting ¹	1
BUSINES 205	Intermediate Accounting ¹	3
BUSINES 208	Federal Income Tax	3
	Hours	10
Semester 4		
BUSINES 206	Auditing	3
BUSINES 207	Intermediate Accounting II	3
BUSINES 215	Corporate and Entity Federal Income Tax	3
	Hours	9
	Total Hours	36

1

Students must be concurrently enrolled in BUSINES 204 Computer Applications Intermediate Accounting and BUSINES 205 Intermediate Accounting.

Choose your courses with your College Advisor.

Criminal Justice: Private Police Services, Advanced Certificate



College(s): DA

Program Code: 0319

The Advanced Certificate program in Criminal Justice: Private Police is focused on the study of theory and practices of current trends in private police services, criminal and civil law for private security officers. The program can lead to promotion to security directors, middle-management positions or self-employment.

Program Requirements

Code	Title	Hours
Required Program Core		
CRM JUS 102	Administration of Criminal Justice	3
CRM JUS 114	Administration of Juvenile Justice	3
CRM JUS 170	Scope & Purpose of Private Policing	3
CRM JUS 172	Management & Supervision for Private Policing	3
CRM JUS 174	Law For Private Police	3
CRM JUS 211	Intro To Investigation	3
CRM JUS 222	Professional Responsibility	3
CRM JUS 234	Criminal Law & Procedure	3
CIS 120	Introduction to Computer Applications	3
ENGLISH 107	Report Writing	3
Total Hours		30

Criminal Justice: Private Police Services, Basic Certificate



College(s): DA

Program Code: 0326

Criminal Justice: Private Police Services, Basic Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
CRM JUS 102	Administration of Criminal Justice	3
CRM JUS 170	Scope & Purpose of Private Policing	3
CRM JUS 172	Management & Supervision for Private Policing	3
CRM JUS 174	Law For Private Police	3
CRM JUS 211	Intro To Investigation	3
CRM JUS 222	Professional Responsibility	3
Total Hours		18

Criminal Justice: Public Police Services, Advanced Certificate



College(s): DA, HW*, KK, OH, TR, WR

Program Code: 0295

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington. Please refer to CCC's transfer degree in Criminal Justice.*

Program Requirements

Code	Title	Hours
Required Program Core		
CRM JUS 102	Administration of Criminal Justice	3
CRM JUS 114	Administration of Juvenile Justice	3
CRM JUS 202	Issues In Criminal Justice	3
CRM JUS 211	Intro To Investigation	3
CRM JUS 221	Police Organization & Management	3
CRM JUS 222	Professional Responsibility	3
CRM JUS 234	Criminal Law & Procedure	3
CRM JUS 256	Constitutional Law	3
CIS 120	Introduction to Computer Applications	3
CRM JUS 155	Introduction To Corrections	3
	or ENGLISH 107Report Writing	
Total Hours		30

Criminal Justice: Public Police Services, Associate in Applied Science



College(s): DA, HW*, KK, OH, TR, WR

Program Code: 0294

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington. Please refer to CCC's transfer degree in Criminal Justice.*

The AAS program in Criminal Justice: Public Police Services studies the theory and practice of contemporary criminal justice for students who plan on careers as police officers or other criminal justice positions, as well as police who wish to advance in rank or into administrative level of criminal justice.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
	Fine Arts & Humanities course (HD)	3
	Social and Behavioral Sciences course	3
	Mathematics, Physical Sciences, or Life Sciences course	3
	Additional General Education course	3
Required Program Core		
CRM JUS 102	Administration of Criminal Justice	3
CRM JUS 114	Administration of Juvenile Justice	3
CRM JUS 202	Issues In Criminal Justice	3
CRM JUS 211	Intro To Investigation	3
CRM JUS 221	Police Organization & Management	3
CRM JUS 222	Professional Responsibility	3
CRM JUS 234	Criminal Law & Procedure	3
CRM JUS 256	Constitutional Law	3
CIS 120	Introduction to Computer Applications	3

Select a minimum of 6 credit hours of the following: 6

POL SCI 201	The National Government
PSYCH 201	General Psychology
SOC 201	Intro To the Study Of Society

Program Electives

Students must select a minimum of 12 credit hours from the following courses or others as recommended by a College Advisor. 12

CRM JUS 155	Introduction To Corrections
CRM JUS 250	Introduction To Criminology
ENGLISH 107	Report Writing
	Additional Elective

Total Hours 60

One course must fulfill the Human Diversity (HD) requirement.

Criminal Justice: Public Police Services, Basic Certificate



College(s): DA, KK, OH, TR, WR

Program Code: 0296

Criminal Justice: Public Police Services, Basic Certificate



Program Requirements

Code	Title	Hours
Required Program Core		
CRM JUS 102	Administration of Criminal Justice	3
CRM JUS 114	Administration of Juvenile Justice	3
CRM JUS 202	Issues In Criminal Justice	3
CRM JUS 211	Intro To Investigation	3
CRM JUS 234	Criminal Law & Procedure or CRM JUS 25 Constitutional Law	3
Total Hours		15

Culinary Arts, Advanced Certificate



College(s): KK

Program Code: 0363

The Advanced Certificate program in Culinary Arts is comprised of all courses included in the parent degree program with the exception of the general education classes and the advanced cooking course. The Advanced Certificate program focuses on advanced techniques and offers extensive practice utilizing contemporary and classical menus. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

Program Requirements

Code	Title	Hours
Required Program Core		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 706	Introduction to Garde Manger	4
330CUL 708	Chef's Training I-Section B	4
330CUL 709	Advanced Garde Manger	4
330CUL 710	Plant Based Cooking	4
330CUL 714	Nutrition for Chefs	3
330CUL 717	Food Costing & Control	3
330CUL 730	International Cooking	4
HMGT 724	Hospitality Management	3
Total Hours		38

Pathway

This is an **example course sequence** for students interested in earning a degree in Culinary Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Culinary Arts. It does not represent a contract, nor does it guarantee course availability.

The AC program in Culinary Arts is comprised of all courses included in the parent Culinary Arts 362 AAS program with the exception of the general education classes and advanced cooking course. The Advanced Certificate Program focuses on advanced techniques and offers extensive practice utilizing contemporary and classical menus. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

The Basic Certificate in the Culinary Arts curriculum introduces the student to the commercial kitchen environment by covering safety and sanitation procedures, basic mise en place including knife skills and station set-up, proper use and care of equipment, classical cooking terminology, standard cooking methods, stock preparation, and sauce production. This program is designed to give the student the opportunity to investigate and assess Culinary Arts as a possible career goal.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
	Hours	13
Semester 2		
330CUL 706	Introduction to Garde Manger	4
330CUL 730	International Cooking	4
HMG7 724	Hospitality Management	3
330CUL 714	Nutrition for Chefs	3
	Hours	14
Semester 3		
330CUL 709	Advanced Garde Manger	4
330CUL 717	Food Costing & Control	3
330CUL 710	Plant Based Cooking	4
	Hours	11
	Total Hours	38

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Culinary Arts, Associate in Applied Science



College(s): KK

Program Code: 0362

The Associate in Applied Science degree program in Culinary Arts is a sequential learning program taught over four semesters. All semesters include lecture, discussion, demonstration and hands-on production that allow students to practice the techniques of food production in a commercial food service environment. The curriculum includes additional methods and techniques that will increase the student's repertoire of ethnic and classical menus. In addition, the coursework covers management skills, cost control, budgeting techniques, merchandising, business planning, resume writing and interviewing techniques. General education classes must be completed to satisfy the degree requirements. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
Mathematics or Physical Sciences or Life Sciences course		3
Fine Arts & Humanities course		3
Humanities course		3
Social and Behavioral Sciences course		3
Required Program Core		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4

330CUL 706	Introduction to Garde Manger	4
330CUL 708	Chef's Training I-Section B	4
330CUL 709	Advanced Garde Manger	4
330CUL 710	Plant Based Cooking	4
330CUL 714	Nutrition for Chefs	3
330CUL 717	Food Costing & Control	3
330CUL 728	Restaurant Service	7
330CUL 730	International Cooking	4
HMG 724	Hospitality Management	3
HMG 860	Hospitality Internship	4
Total Hours		64

1

One GE course must be HD

Pathway

This is an **example course sequence** for students interested in earning a degree in Culinary Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC) and an Associate in Applied Science (AAS) degree in Culinary Arts. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

The AAS degree program in Culinary Arts is a sequential learning program taught over four semesters. All semesters include lecture, discussion, demonstration and hands-on production that allow students to practice the techniques of food production in a commercial food service environment. The curriculum includes additional methods and techniques that will increase the student's repertoire of ethnic and

classical menus. In addition, the coursework covers management skills, cost control, budgeting techniques, merchandising, business planning, resume writing and interviewing techniques. General education classes must be completed to satisfy the degree requirements. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

The AC program in Culinary Arts is comprised of all courses included in the parent Culinary Arts 362 AAS program with the exception of the general education classes and advanced cooking course. The Advanced Certificate Program focuses on advanced techniques and offers extensive practice utilizing contemporary and classical menus. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

The Basic Certificate in the Culinary Arts curriculum introduces the student to the commercial kitchen environment by covering safety and sanitation procedures, basic mise en place including knife skills and station set-up, proper use and care of equipment, classical cooking terminology, standard cooking methods, stock preparation, and sauce production. This program is designed to give the student the opportunity to investigate and assess Culinary Arts as a possible career goal.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
Hours		16
Semester 2		
Social and Behavioral Sciences course ¹		3
330CUL 706	Introduction to Garde Manger	4
330CUL 730	International Cooking	4
HMG 724	Hospitality Management	3
330CUL 714	Nutrition for Chefs	3
Hours		17
Semester 3		
330CUL 709	Advanced Garde Manger	4
330CUL 717	Food Costing & Control	3
330CUL 710	Plant Based Cooking	4
Fine Arts & Humanities course ¹		3
BIOLOGY 107	Nutrition-Consumer Education ¹	3
Hours		17
Semester 4		
HMG 860	Hospitality Internship	4
Humanities course (HD) ¹		3

330CUL 728	Restaurant Service	7
Hours		14
Total Hours		64

1

General Education Requirement

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Culinary Arts, Basic Certificate



College(s): KK

Program Code: 0364

The Basic Certificate in the Culinary Arts curriculum introduces the student to the commercial kitchen environment by covering safety and sanitation procedures, basic mise en place including knife skills and station set-up, proper use and care of equipment, classical cooking terminology, standard cooking methods, stock preparation, and sauce production. This program is designed to give the student the opportunity to investigate and assess Culinary Arts as a possible career goal.

Program Requirements

Code	Title	Hours
Required Program Core		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
Total Hours		13

Pathway

This is an **example course sequence** for students interested in earning a degree in Culinary Arts. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Culinary Arts. It does not represent a contract, nor does it guarantee course availability.

Student must be eligible for ENGLISH 97 Written Communication Skills and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
Hours		13
Total Hours		13

This program is offered through the Washburne Culinary & Hospitality Institute at Kennedy-King College.

Choose your courses with your College Advisor.

Cybersecurity, Advanced Certificate



College(s): DA, KK, OH, WR

Program Code: 0432

The Cybersecurity Advanced Certificate program provides knowledge and skill set for students pursuing career opportunities in cybersecurity.

With a hands-on approach to learning in this program, students acquire essential to cybersecurity technical knowledge relating to using and administering network devices and network operating systems, practice ethical hacking, and engage in information security systems analysis. Students also learn to script and code to monitor, protect against, contain, respond to and recover from cyberattacks.



Program Requirements

Code	Title	Hours
Required Program Core		
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 101	Networking Essentials or NET TEC 121 Internetworking I	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
COMPSFI 212	Scripting for Cybersecurity	3
COMPSFI 213	Ethical Hacking	3
NET TEC 122	Internetworking II or NET TEC 240 Operating Systems/Server I	3
Program Electives		

Select a minimum of 3 credit hours of program electives (p. 155)	3
Total Hours	30

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
CIS 111	Computer Operations	3
CIS 142	C++ Object Oriented Programming I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
CIS 281	Web Development III/Server Side Programming	3
CIS 260	Computer Information Systems Field Project	3
CIS 265	Computer Information Systems Internship	3
COMPSFI 101	Networking Essentials	3
COMPSFI 205	Cyber Forensics	3
COMPSFI 215	Information Security Domain	3
COMPSFI 231	Internetworking Security	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Pathway

This is an **example course sequence** for students interested in Cybersecurity. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and Advanced Certificate (AC) in Cybersecurity.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 116	Operating System I	3
CIS 103	Fundamentals of Programming	3
COMPSFI 101 or NET TEC 121	Networking Essentials or Internetworking I	3
	Hours	9
Semester 2		
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
	Hours	9
Semester 3		
COMPSFI 212	Scripting for Cybersecurity	3
COMPSFI 213	Ethical Hacking	3
NET TEC 122 or NET TEC 240	Internetworking II or Operating Systems/Server I	3
Program Elective (p. 156)		3
	Hours	12
	Total Hours	30

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
CIS 111	Computer Operations	3
CIS 142	C++ Object Oriented Programming I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
CIS 281	Web Development III/Server Side Programming	3
CIS 260	Computer Information Systems Field Project	3
CIS 265	Computer Information Systems Internship	3
COMPSFI 101	Networking Essentials	3
COMPSFI 205	Cyber Forensics	3
COMPSFI 215	Information Security Domain	3
COMPSFI 231	Internetworking Security	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Choose your courses with your College Advisor.

Cybersecurity, Associate in Applied Science



College(s): DA, KK, OH, WR

Program Code: 0433

The Cybersecurity Associate in Applied Science program provides the required knowledge and skill set for students pursuing entry-level career opportunities in Cybersecurity. With a hands-on approach to learning in this program, students acquire comprehensive Cybersecurity technical knowledge required in entry-level cybersecurity jobs.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
	Fine Arts and Humanities ¹	3
	Social and Behavioral Sciences ¹	3
	Physical Sciences and Life Sciences	3
	Mathematics (Math 118 or higher) ²	3
Required Program Core		
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 101	Networking Essentials	3
	or NET TEC 121 Internetworking I	
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
COMPSFI 212	Scripting for Cybersecurity	3
COMPSFI 213	Ethical Hacking	3
COMPSFI 214	Information Security Systems Analysis	3
NET TEC 122	Internetworking II	3

or NET TEC 240 Operating Systems/Server I

NET TEC 245	Cloud Computing and Services	3
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Required Work-Based Learning Courses

CIS 260	Computer Information Systems Field Project	3
	or CIS 265 Computer Information Systems Internship	

Program Electives

Select a minimum of 9 credit hours of program electives (p. 157)	9
Total Hours	60

¹

One course must satisfy the Human Diversity (HD) requirement

²

MATH 125 Introductory Statistics recommended

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
CIS 111	Computer Operations	3
CIS 142	C++ Object Oriented Programming I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
CIS 260	Computer Information Systems Field Project	3
CIS 265	Computer Information Systems Internship	3
CIS 281	Web Development III/Server Side Programming	3
COMPSFI 101	Networking Essentials	3
COMPSFI 205	Cyber Forensics	3

COMPSFI 215	Information Security Domain	3
COMPSFI 216	Info Security Program Management	3
COMPSFI 231	Internetworking Security	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Pathway

This is an **example course sequence** for students interested in pursuing Cybersecurity. This does not represent a contract or guarantee course availability. If this pathway is followed as outlined, students will earn a Basic Certificate (BC), an Advanced Certificate (AC), and an Associate in Applied Science (AAS) Degree in Cybersecurity.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 116	Operating System I	3
CIS 103	Fundamentals of Programming	3
COMPSFI 101 or NET TEC 121	Networking Essentials or Internetworking I	3
Mathematics (Math 118 or higher) ^{1,2}		3
ENGLISH 101	Composition ¹	3
Hours		15
Semester 2		
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
Social and Behavioral Sciences course ^{1,3}		3
Program Elective (p. 158) ⁴		3
Hours		15
Semester 3		
COMPSFI 212	Scripting for Cybersecurity	3
COMPSFI 213	Ethical Hacking	3
NET TEC 122 or NET TEC 240	Internetworking II or Operating Systems/Server I	3
Physical Sciences or Life Sciences course ¹		3
Program Elective (p. 158) ⁴		3
Hours		15
Semester 4		
NET TEC 245	Cloud Computing and Services	3
COMPSFI 214	Information Security Systems Analysis	3
CIS 260 or CIS 265	Computer Information Systems Field Project or Computer Information Systems Internship	3
Fine Arts or Humanities course ^{1,3}		3
Program Elective (p. 158) ⁴		3
Hours		15
Total Hours		60

1

General Education course

2

MATH 125 Introductory Statistics recommended

3

One course must satisfy the Human Diversity (HD) requirement

4

Program Elective (p. 158)

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
CIS 111	Computer Operations	3
CIS 142	C++ Object Oriented Programming I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
CIS 260	Computer Information Systems Field Project	3
CIS 265	Computer Information Systems Internship	3
CIS 281	Web Development III/Server Side Programming	3
COMPSFI 101	Networking Essentials	3
COMPSFI 205	Cyber Forensics	3
COMPSFI 215	Information Security Domain	3
COMPSFI 216	Info Security Program Management	3
COMPSFI 231	Internetworking Security	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Choose your courses with your College Advisor.

Cybersecurity, Basic Certificate



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0297

The Cybersecurity Basic Certificate program provides foundational knowledge and skill set for beginning students pursuing career opportunities in cybersecurity. With a hands-on approach to learning in this program, students acquire essential to cybersecurity technical knowledge of current and emerging cyber threats, vulnerabilities, and technologies. Students learn to script and code, use and administer current operating systems, and acquire core knowledge in digital networking. Equipped with proper foundation, students learn how to identify security threats and incorporate best practices in detecting and responding to global threats in a forensically sound manner.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 101 or NET TEC 121	Networking Essentials Internetworking I	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
Total Hours		18

Pathway

This is an **example course sequence** for students interested in Cybersecurity. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 116	Operating System I (CompTIA A+ Software)	3
COMPSFI 101 or NET TEC 121	Networking Essentials or Internetworking I	3
CIS 103	Fundamentals of Programming (using Python)	3
Hours		9
Semester 2		
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials (CompTIA Security+)	3
COMPSFI 202	Cybercrime and Incident Response	3
Hours		9
Total Hours		18

Choose your courses with your College Advisor.

Dental Hygiene, Associate in Applied Science



College(s): MX

Program Code: 0222

The Dental Hygiene AAS degree program educates students to provide preventive oral health care services to patients. Major responsibilities include assessing a patient's health history, examining the teeth and oral structures, removing plaque biofilm, calculus and stain from the teeth, taking intraoral radiographs and educating patients in oral self-care practices. Graduates are prepared to pass national, regional and state board licensing exams required for dental hygiene licensure.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Dental Hygiene AAS program at Malcolm X College, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Dental-Hygiene.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher)	4
PSYCH 201	General Psychology	3
CHEM 121	Basic Chemistry I (or higher)	4
SOC 201	Intro To the Study Of Society (HD)	3
Required Program Core		
DENTHYG 112	Introduction to Dental Hygiene	1
DENTHYG 119	Introduction to Dental Radiography	1.5
DENTHYG 121	Dental Hygiene Theory I	2
DENTHYG 122	Dental Hygiene Theory II	2
DENTHYG 123	Pre-Clinical Dental Hygiene	2
DENTHYG 125	Diet and Nutrition in Oral Health	2
DENTHYG 126	Dental Radiology	1.5

DENTHYG 130	Dental Materials	3
DENTHYG 131	Oral Structures & Function	3
DENTHYG 132	General/Oral Pathology and Diagnosis	3
DENTHYG 133	Head And Neck Anatomy	2
DENTHYG 135	Medical Emergencies in the Dental Setting	1
DENTHYG 202	Critique of Dental Literature	1
DENTHYG 233	Expanded Functions	3
DENTHYG 235	Community Dental Health I	2
DENTHYG 241	Dental Pharmacology	2
DENTHYG 244	Periodontics for Dental Hygienist	3
DENTHYG 256	Community Dental Health II	1
DENTHYG 258	Ethics And Jurisprudence	2
DENTHYG 260	Senior Seminar	2

Required Work-Based Learning Courses

DENTHYG 124	Clinical Dental Hygiene I	3
DENTHYG 200	Clinical Dental Hygiene II	3
DENTHYG 251	Clinical Dental Hygiene III	6
DENTHYG 252	Clinical Dental Hygiene IV	5
Total Hours		74

Pathway

This is an **example course sequence** for students interested in earning a degree in Dental Hygiene. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Dental Hygiene.

Please note: Semesters 1–3 are “pre-dental hygiene pathway”. Semesters 4–9 occur after acceptance in the Dental Hygiene program. BIOLOGY 120 Terminology For Medical Careers is not required.

Prospective students must apply for admission into the Dental Hygiene program.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
BIOLOGY 121	Biology I ¹	5
	Hours	5
Semester 2		
BIOLOGY 226	Human Structure and Function I ¹	4
SPEECH 101	Fundamentals of Speech Communication ¹	3
	Hours	7
Semester 3		
MCROBIO 233	General Microbiology ¹	4
BIOLOGY 227	Human Structure and Function II ¹	4
	Hours	8
Semester 4		
Summer		
DENTHYG 112	Introduction to Dental Hygiene	1
CHEM 121	Basic Chemistry I ²	4
	Hours	5
Semester 5		
Fall		
DENTHYG 119	Introduction to Dental Radiography	1.5
DENTHYG 121	Dental Hygiene Theory I	2
DENTHYG 123	Pre-Clinical Dental Hygiene	2
DENTHYG 125	Diet and Nutrition in Oral Health	2
DENTHYG 131	Oral Structures & Function	3
DENTHYG 133	Head And Neck Anatomy	2
DENTHYG 135	Medical Emergencies in the Dental Setting	1
ENGLISH 101	Composition ²	3
	Hours	16.5
Semester 6		
Spring		
DENTHYG 122	Dental Hygiene Theory II	2
DENTHYG 124	Clinical Dental Hygiene I	3
DENTHYG 126	Dental Radiology	1.5
DENTHYG 130	Dental Materials	3
DENTHYG 132	General/Oral Pathology and Diagnosis	3
SOC 201	Intro To the Study Of Society (HD) ²	3
	Hours	15.5
Semester 7		
Summer		
DENTHYG 200	Clinical Dental Hygiene II	3
MATH 118	General Education Math ²	4
	Hours	7
Semester 8		
Fall		
DENTHYG 233	Expanded Functions	3
DENTHYG 235	Community Dental Health I	2
DENTHYG 241	Dental Pharmacology	2
DENTHYG 244	Periodontics for Dental Hygienist	3
DENTHYG 251	Clinical Dental Hygiene III	6
	Hours	16
Semester 9		
Spring		
DENTHYG 202	Critique of Dental Literature	1
DENTHYG 252	Clinical Dental Hygiene IV	5
DENTHYG 256	Community Dental Health II	1
DENTHYG 258	Ethics And Jurisprudence	2
DENTHYG 260	Senior Seminar	2

PSYCH 201	General Psychology ²	3
	Hours	14
	Total Hours	94

1

Program Prerequisite

2

General Education Requirement

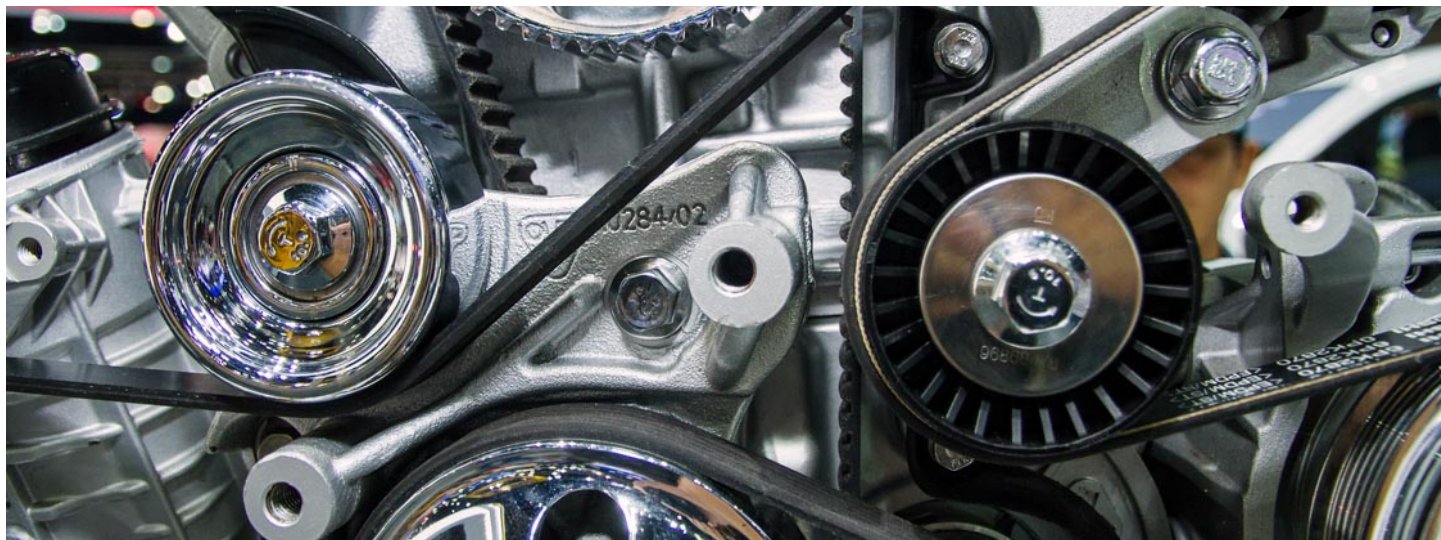
Program Admission Requirements

The program is very competitive, and meeting the minimum admission requirements does not guarantee acceptance into the program. In order to be considered for admission, students must:

- Be at least 18 years of age
- Graduate from an accredited high school or earn a GED
- Meet general admissions requirements for Malcolm X College including successful completion of all prerequisite courses for the Dental Hygiene program
- Have a minimum cumulative GPA of 2.8 in all college-level work
- Submit to Office of Registrar Services all official college transcripts attended outside of City Colleges of Chicago
- Grade of "C" or better in BIOLOGY 121 Biology I, BIOLOGY 226 Human Structure and Function I, and BIOLOGY 227 Human Structure and Function II, SPEECH 101 Fundamentals of Speech Communication, and MCROBIO 233 General Microbiology
 - *All science prerequisite courses must be taken within five (5) years of being accepted to the program.*
- Mandatory 20 documented hours of observing a dental hygienist in clinical practice (**NOTE: this requirement is suspended for the 2020-2021 application cycle. Please visit the DH admissions packet link on the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Dental-Hygiene.aspx>) for details**)
- Strongly encouraged that applicants attend a dental hygiene open house
- Submit the dental hygiene admissions packet

For more information on admissions requirements and the application process, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Dental-Hygiene.aspx>).

Diesel Technology, Advanced Certificate



College(s): OH

Program Code: 0401

The Diesel Technology Advanced Certificate program provides students with the training needed for maintaining and repairing heavy-duty diesel powered equipment. Instructional training is heavily focused on diesel engines performance, hydraulics, electrical, air conditioning, and drive trains.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
PHY SCI 112	General Course II Physical Science	4
MATH 107	Math For Technicians I	4
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 113	Introduction to Diesel Engine Construction	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3

330TRNS 218	Heating and Air Conditioning	3
Total Hours		50

Pathway

This is an **example** course sequence for students interested in Diesel Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Diesel Technology.

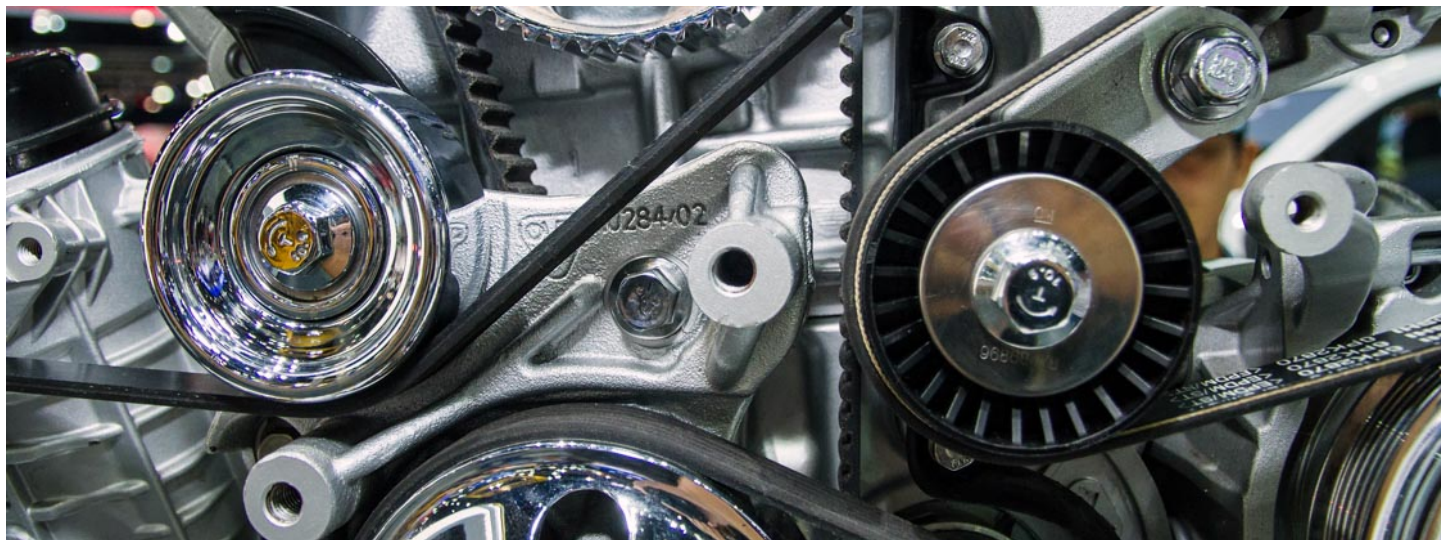
Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MATH 107	Math For Technicians I	4
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 113	Introduction to Diesel Engine Construction	3
		Hours
		10
Semester 2		
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
		Hours
		9
Semester 3		
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
ENGLISH 101	Composition	3
		Hours
		9
Semester 4		
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3

PHY SCI 112	General Course II Physical Science	4
	Hours	13
Semester 5		
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3
330TRNS 218	Heating and Air Conditioning	3
	Hours	9
	Total Hours	50

Diesel Technology, Associate in Applied Science



College(s): OH

Program Code: 0400

The Associate in Applied Science degree in Diesel Technology equips students with the skills necessary to repair and maintain diesel-powered highway, industrial, and marine vehicles and equipment. Students will gain more detailed instructions in how diesel maintenance techniques and principles are applied in diagnosing malfunctions and prescribing corrective action. The course work highlights diesel service management, critical thinking and problem solving, theory and skills of refrigeration, electronic and mechanical fuel injection, chassis maintenance, vehicle inspection, tune-up, engine overhaul, transmission repair, brake service, handling hazardous waste and preventative maintenance. Students will also be eligible to take the National Institute of Automotive Service Excellence (NAISE) examinations in heavy truck mechanics, Allison Transmission certification, and Hybrid certification.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
PHY SCI 102	General Course Physical Science	3
PHY SCI 112	General Course II Physical Science	4
Select one of the following:		3
AFRO AM 101	Introduction to African-American Studies (HD)	
HUM 143	Intro to Latin American/Latino Studies (HD)	
HUM 215	The Art and Philosophy of the African Continent (HD)	
GEOG 101	World Geography	3
or ECON 201	Principles Of Economics I	
Required Program Core		
MATH 107	Math For Technicians I	4
330TRNS 111	Introduction to Diesel Technology	3

330TRNS 112	Diesel Electrical Systems I	3
330TRNS 113	Introduction to Diesel Engine Construction	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3
330TRNS 217	Heavy Duty Drives II (Automatic)	3
330TRNS 218	Heating and Air Conditioning	3
330TRNS 219	Hydraulic Systems	4
330TRNS 220	Advanced Diagnostics	4
Total Hours		70

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example** course sequence for students interested in Diesel Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science Degree (AAS) in Diesel Technology. One course will satisfy the Human Diversity (HD) requirement.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MATH 107	Math For Technicians I ¹	5
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 113	Introduction to Diesel Engine Construction	3
	Hours	11
Semester 2		
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
	Hours	9
Semester 3		
	Social and Behavioral Sciences course ^{1,2}	3
PHY SCI 102	General Course Physical Science ¹	3
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
	Hours	12
Semester 4		
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3
	Hours	9
Semester 5		
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3
330TRNS 218	Heating and Air Conditioning	3
	Hours	9
Semester 6		
ENGLISH 101	Composition ¹	3
330TRNS 217	Heavy Duty Drives II (Automatic)	3
330TRNS 219	Hydraulic Systems	4
330TRNS 220	Advanced Diagnostics	4
PHY SCI 112	General Course II Physical Science	4
	Fine Arts & Humanities course ^{1,2}	3
	Hours	21
	Total Hours	71

1

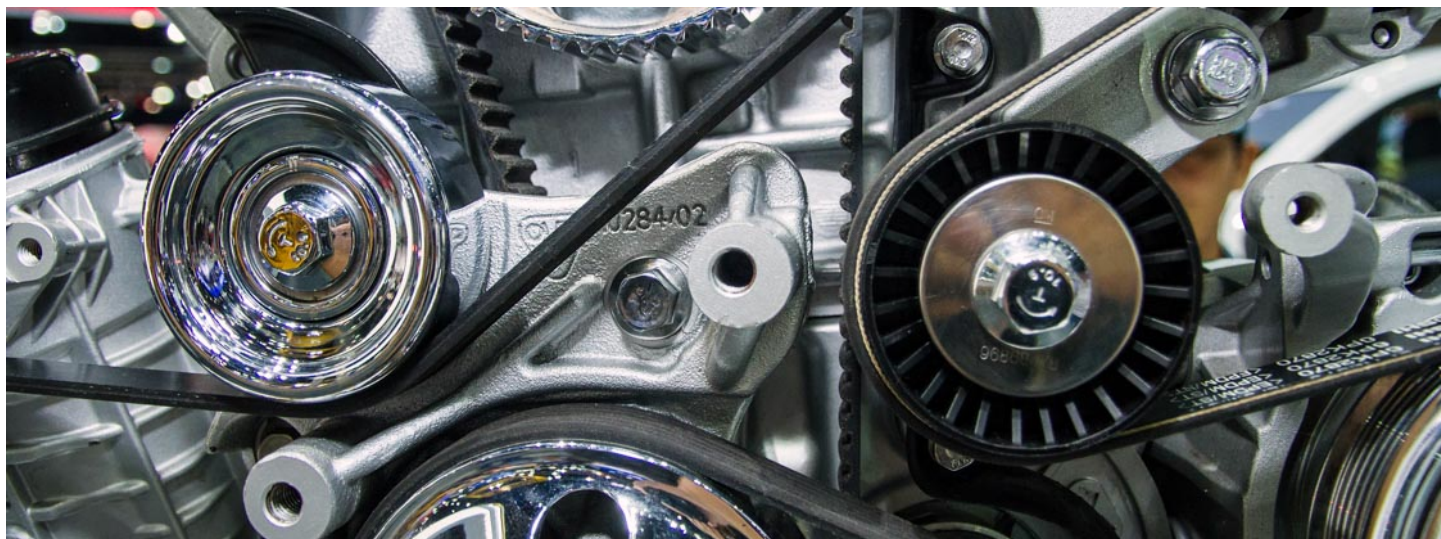
General Education course

2

One course must satisfy the Human Diversity (HD) requirement

Choose your courses with your College Advisor.

Diesel Technology, Basic Certificate



College(s): OH

Program Code: 0402

The Diesel Technology Basic Certificate Program introduces students to the basic fundamentals of diesel technology and provides them with the necessary entry-level skills and theory to enter either the medium/heavy duty or construction equipment service/repair fields. This certificate prepares students to become repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of diesel engines, suspension and steering, brakes, and electrical and electronic systems.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
MATH 107	Math For Technicians I	4
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 113	Introduction to Diesel Engine Construction	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
Total Hours		19

Pathway

This is an **example** course sequence for students interested in Diesel Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Diesel Technology.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MATH 107	Math For Technicians I	4
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 113	Introduction to Diesel Engine Construction	3
Hours		10
Semester 2		
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
Hours		9
Total Hours		19

Choose your courses with your College Advisor.

Digital Marketing and Social Media, Advanced Certificate



College(s): HW

Program Code: 0426

The purpose of the Digital Marketing and Social Media Advanced Certificate is to provide students with marketing management skills, so that they can obtain an entry-level position. Sample concepts to be covered will include: marketing data analytics, project management, digital media, social networking sites, recommender sites, reputation systems, user-generated concepts, social bookmarking and virtual worlds.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
CIS 120	Introduction to Computer Applications	3
CIS 181	Web Development I/Basic Web Technologies	3
BUSINES 111	Introduction To Business	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 231	Marketing	3
BUSINES 259	Introduction to Project Management	3
BUSINES 260	Digital Marketing and Social Media	3
BUSINES 284	Business Communications	3
DMD 168	Computer Art I	3
Program Electives		
BUSINES 214 or PHIL 107	The Legal & Social Environment of Business Ethics	3
Total Hours		36

Pathway

This is an **example course sequence** for students interested in pursuing Digital Marketing and Social Media. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
CIS 120	Introduction to Computer Applications	3
BUSINES 111	Introduction To Business	3
BUSINES 214	The Legal & Social Environment of Business ¹	3
BUSINES 284	Business Communications	3
		Hours
		15
Semester 2		
SPEECH 101	Fundamentals of Speech Communication	3
DMD 168	Computer Art I	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 231	Marketing	3
BUSINES 259	Introduction to Project Management	3
		Hours
		15
Semester 3		
BUSINES 260	Digital Marketing and Social Media	3
CIS 181	Web Development I/Basic Web Technologies	3
		Hours
		6
Total Hours		36

1

Program Elective

Choose your courses with your College Advisor.

Digital Multimedia Design, Advanced Certificate



College(s): HW

Program Code: 0351

The Advanced Certificate in Digital Multimedia Design is designed to prepare students for entry-level positions in the field of interactive and multimedia design. Students will learn the necessary skills, both technically and aesthetically, to create digital multimedia presentations for CD's, DVD's, video, or web pages.

Program Requirements

Code	Title	Hours
Required Program Core		
ART 131	General Drawing	3
ART 176	Graphics Design I	3
DMD 130	Principles of Design and Development for Digital Media	3
DMD 131	Beg Multimedia Design & Dev	3
DMD 168	Computer Art I	3
DMD 231	Intermediate Multimedia Design & Development	3
DMD 233	Advanced Multimedia Design & Development	3
DMD 268	Advanced Computer Art	3
DMD 299	Portfolio & Professional Practice Seminar	3
Program Electives		
Select one of the following:		3
DMD 105	2D Animation	
DMD 121	3D Modeling	
DMD 179	Digital Video I	
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing Digital Multimedia Design. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Digital Multimedia Design.

Semester-by Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
DMD 130	Principles of Design and Development for Digital Media	3
DMD 168	Computer Art I	3
DMD 105	2D Animation ¹	3
		Hours
		9
Semester 2		
DMD 131	Beg Multimedia Design & Dev	3
ART 176	Graphics Design I	3
ART 131	General Drawing	3
or ART 142	or Figure Draw & Composition	
		Hours
		9
Semester 3		
DMD 231	Intermediate Multimedia Design & Development	3
DMD 268	Advanced Computer Art	3
		Hours
		6
Semester 4		
DMD 233	Advanced Multimedia Design & Development	3
DMD 299	Portfolio & Professional Practice Seminar	3
		Hours
		6
		Total Hours
		30

1

Program elective

Choose your courses with your College Advisor.

Digital Multimedia Design, Associate in Applied Science



College(s): HW

Program Code: 0350

The AAS in Digital Multimedia Design is designed to prepare students for entry-level positions in the field of interactive and multimedia design, and for possible transfer to a four-year institution. Requirements for Digital Multimedia Design will equip students with the skills to create digital multimedia presentations; output can be delivered on CD, DVD, video, or in the form of webpages over the Internet.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
MATH 118	General Education Math (or higher)	4
FIN ART 107	History of Architecture, Painting & Sculpture I	3
	or FIN ART 108 Hist Of Arch Paint Sculp II	
HUM 105	The New World Of Mass Media	3
	or PHIL 225 Philosophy Of Art	
	Physical Sciences or Life Sciences course	3
	Social and Behavioral Sciences course	3
Required Program Core		
ART 131	General Drawing	3
	or ART 142 Figure Draw & Composition	
ART 144	Two Dimensional Design	3
ART 176	Graphics Design I	3
DMD 105	2D Animation	3
DMD 121	3D Modeling	3
DMD 130	Principles of Design and Development for Digital Media	3
DMD 131	Beg Multimedia Design & Dev	3

DMD 168	Computer Art I	3
DMD 179	Digital Video I	3
DMD 231	Intermediate Multimedia Design & Development	3
DMD 233	Advanced Multimedia Design & Development	3
DMD 268	Advanced Computer Art	3
DMD 279	Digital Video II	3
DMD 299	Portfolio & Professional Practice Seminar	3

Program Electives

Select one of the following:		3
DMD 115	Digital Audio	
DMD 205	Advanced Animation	
DMD 221	3D Animation	

Total Hours	67
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One course must fulfill the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Digital Multimedia Design. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC) and an Associate in Applied Science (AAS) in Digital Multimedia Design.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
FIN ART 107	History of Architecture, Painting & Sculpture I ¹	3
	or FIN ART 108 or Hist Of Arch Paint Sculp II	
ART 144	Two Dimensional Design	3

DMD 130	Principles of Design and Development for Digital Media	3
DMD 168	Computer Art I	3
DMD 105	2D Animation	3
Hours		18
Semester 2		
DMD 131	Beg Multimedia Design & Dev	3
ART 176	Graphics Design I	3
ART 131 or ART 142	General Drawing or Figure Draw & Composition	3
MATH 118	General Education Math (or higher Mathematics) ¹	4
PHIL 225 or HUM 105	Philosophy Of Art ¹ or The New World Of Mass Media	3
Hours		16
Semester 3		
DMD 231	Intermediate Multimedia Design & Development	3
DMD 121	3D Modeling	3
Social and Behavioral Sciences course (HD) ¹		3
Physical Sciences or Life Sciences course ¹		3
DMD 268	Advanced Computer Art	3
DMD 179	Digital Video I	3
Hours		18
Semester 4		
DMD 233	Advanced Multimedia Design & Development	3
ENGLISH 102	Composition ¹	3
DMD 299	Portfolio & Professional Practice Seminar	3
DMD 279	Digital Video II	3
Select one of the following:		3
DMD 115	Digital Audio ²	
DMD 205	Advanced Animation ²	
DMD 221	3D Animation ²	
Hours		15
Total Hours		67

1

General Education Requirement

2

Program Elective

Choose your courses with your College Advisor.

Digital Multimedia Design, Basic Certificate



College(s): HW

Program Code: 0354

The Basic Certificate in Digital Multimedia Design is designed to prepare students for entry-level positions in the field of interactive and multimedia design. Students will learn the necessary skills, both technically and aesthetically, to create digital multimedia presentations for CD's, DVD's, video, or web pages.

Program Requirements

Code	Title	Hours
Required Program Core		
ART 176	Graphics Design I	3
DMD 130	Principles of Design and Development for Digital Media	3
DMD 131	Beg Multimedia Design & Dev	3
DMD 168	Computer Art I	3
DMD 231	Intermediate Multimedia Design & Development	3
DMD 233	Advanced Multimedia Design & Development	3
Total Hours		18

Course	Title	Hours
Semester 1		
DMD 130	Principles of Design and Development for Digital Media	3
DMD 168	Computer Art I	3
Hours		6
Semester 2		
DMD 131	Beg Multimedia Design & Dev	3
ART 176	Graphics Design I	3
Hours		6
Semester 3		
DMD 231	Intermediate Multimedia Design & Development	3
Hours		3
Semester 4		
DMD 233	Advanced Multimedia Design & Development	3
Hours		3
Total Hours		18

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in pursuing Digital Multimedia Design. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Digital Multimedia Design.

Semester-by Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Early Childhood Special Education Endorsement, Basic Certificate



College(s): TR

Program Code: 0429

The Basic Certificate-Early Childhood Special Education is for undergraduate degree holders with an Illinois Professional Educator License and an LBS1 endorsement or an Early Childhood Endorsement seeking a letter of approval for Early Childhood Special Education. The ECSE approval prepares students to teach in an early childhood special education setting.

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 262	Child, Family & Community Relations	3
EDUC 170	Observation, Documentation, & Assessment in ECSE	3
EDUC 171	Language and Literacy in ECSE	3
EDUC 172	Principles and Practices of ECSE	3
Total Hours		12

Admission Requirements:

- Undergrad degree holders
- Valid Illinois Professional Educator License (PEL) with an LBS1 endorsement or an Early Childhood Endorsement

Electrical Construction Technology, Advanced Certificate



College(s): DA

Program Code: 0721

The Advanced Certificate program in Electrical Construction Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Electricians assemble, install, maintain, and test electrical equipment and wiring systems in residential, commercial, and industrial settings.

Program Requirements

Code	Title	Hours
Required Program Core		
432IBEW 702	Electrical Circuitry	4.5
432IBEW 703	Conduit Bending I	3.5
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 706	Conduit Bending II	3.5
432IBEW 708	Motor Control Systems	3.5
432IBEW 709	Print Reading II	3
432IBEW 714	Technical Math I	3
432IBEW 715	Technical Math II	3
432IBEW 725	Low Voltage Systems	3.5
Total Hours		35.5

Electrical Construction Technology, Associate in Applied Science



College(s): DA

Program Code: 0752

The Associate in Applied Science degree program in Electrical Construction Technology is a cooperative effort between Richard J. Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT) which is made up of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local Union 134. Through the joint effort of the college and EJATT, the program is dedicated to consistently providing state-of-the-art education and training to apprentices, and through them to the residential and commercial building contractors in the Chicagoland area. This commitment to both the individual and industry requires not only providing electricians for today's market, but also looking toward tomorrow's market and future technologies.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Any History, Psychology, or related course		9
432IBEW 714	Technical Math I	3
Required Program Core		
432IBEW 702	Electrical Circuitry	4.5
432IBEW 703	Conduit Bending I	3.5
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5

432IBEW 706	Conduit Bending II	3.5
432IBEW 708	Motor Control Systems	3.5
432IBEW 709	Print Reading II	3
432IBEW 710	Programmable Control	4.5
432IBEW 712	HVAC Systems	4.5
432IBEW 715	Technical Math II	3
432IBEW 724	Electrical Power Systems	4.5
432IBEW 725	Low Voltage Systems	3.5
432IBEW 727	Photovoltaic Systems	4.5
Total Hours		65.5

At least one course must meet the Human Diversity (HD) requirement.

Applicants must meet the following requirements:

- Graduate of an accredited high school or have acceptable scores on the General Education Development (GED) test. Foreign and domestic high school education or domestic GED must be validated by official transcripts. Official transcripts will be accepted in place of the high school diploma if the graduation date is provided.
- At least 18 years old prior to application.
- Have taken two semesters of high school or college algebra and earned a minimum "C" grade in each semester, #completed# prior to application. An official transcript is required.

- Be physically able, as determined by a physician, to safely perform the tasks of a construction electrician. A drug test is required.
- Have evidence of a qualifying grade on an aptitude test prescribed by the EJATT Local Union 134. The aptitude test covers English and Mathematics comprehension along with a spatial ability evaluation.

Electrical Construction Technology, Basic Certificate



College(s): DA

Program Code: 0703

The Basic Certificate program in Electrical Construction Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Electricians assemble, install, maintain, and test electrical equipment and wiring systems in residential, commercial, and industrial settings.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

Program Requirements

Code	Title	Hours
Required Program Core		
432IBEW 702	Electrical Circuitry	4.5
432IBEW 703	Conduit Bending I	3.5
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
Total Hours		19

Applicants must meet the following requirements:

- Graduate of an accredited high school or have acceptable scores on the General Education Development (GED) test. Foreign and domestic high school education or domestic GED must be validated by official

transcripts. Official transcripts will be accepted in place of the high school diploma if the graduation date is provided.

- At least 18 years old prior to application.
- Have taken two semesters of high school or college algebra and earned a minimum "C" grade in each semester, #completed# prior to application. An official transcript is required.
- Be physically able, as determined by a physician, to safely perform the tasks of a construction electrician. A drug test is required.
- Have evidence of a qualifying grade on an aptitude test prescribed by the EJATT Local Union 134. The aptitude test covers English and Mathematics comprehension along with a spatial ability evaluation.

Emergency Medical Technician (EMT), Basic Certificate



College(s): MX

Program Code: 0252

The Basic Certificate in Emergency Medical Technician (EMT)–Basic recognizes that the majority of pre-hospital emergency medical care will be provided by the EMT Basic. This includes all skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. Specifically, the course is designed to provide training to recognize the nature or extent of a patient’s condition to administer appropriate emergency medical care to stabilize the patient’s condition, lift move, position, and otherwise handle the patient to minimize discomfort and prevent further injury and transport them safely to the proper medical facility.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
EMT 101	Emergency Medical Technician-Basic	8
Total Hours		8

EMT-II Paramedic, Advanced Certificate



College(s): MX

Program Code: 0265

The AC in EMT (II)–Paramedic is awarded to students who successfully complete the Paramedic Core Curriculum. Courses run for three consecutive semesters starting each fall. Applications are accepted the previous spring. Successful completion of the core curriculum provides eligibility to take the licensing examination offered by the IL Dept. of Public Health or the National Registry of EMTs. The Malcolm X Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org (<https://www.caahep.org>)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). For CAAHEP contact information, please visit www.caahep.org (<https://www.caahep.org>). The program is approved by the IL Dept. of Public Health, Division of Emergency Medical Services and Highway through JHS Cook County (Resource) Hospital.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the EMT II - Paramedic AC at Malcolm X College, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Paramedic-Program.aspx>).

Program Requirements

Code	Title	Hours
Required Program Core		
EMT 221	Essentials of Paramedic Medicine I	9
EMT 223	Essentials of Paramedic Medicine II	9
Required Work-Based Learning Courses		
EMT 222	Paramedic Medicine Practicum I	5.5
EMT 224	Paramedic Medicine Practicum II	7

EMT 227	Paramedic Medicine Field Internship	6
Total Hours		36.5

Pathway

This is an **example course sequence** for students interested in EMT (II)–Paramedic. If this pathway is followed as outlined, student will earn an Advanced Certificate (AC) in EMT (II)–Paramedic. This does not represent a contract, nor does it guarantee course availability.

Malcolm X College offers the only paramedic program in the City of Chicago. It offers an Advanced Certificate (AC) as well as an Associate in Applied Science degree (AAS) in this professional specialty. Successful completion of the Paramedic Core Curriculum culminates in the Advanced Certificate, and additional general education courses enables the paramedic student to attain an AAS degree. Completion of the degree can broaden the student’s marketability as well as provide a strong basis for continued professional learning.

This program is presented as a collaborative effort by Malcolm X College and the Chicago EMS Region XI, which includes the Chicago Fire Department, Advocate Illinois Masonic Medical Center, JHS Cook County Hospital, Northwestern Memorial Hospital, University of Chicago Hospitals and regional Associate Hospitals.

Semester-by-Semester Program Plan for Full-Time Student

Course	Title	Hours
Semester 1		
EMT 221	Essentials of Paramedic Medicine I	9
EMT 222	Paramedic Medicine Practicum I	5.5
		Hours
		14.5
Semester 2		
EMT 223	Essentials of Paramedic Medicine II	9
EMT 224	Paramedic Medicine Practicum II	7
		Hours
		16

Semester 3

EMT 227	Paramedic Medicine Field Internship	6
	Hours	6
	Total Hours	36.5

Choose your courses with your College Advisor.

Program Admission Requirements

Courses run for three consecutive semesters starting each fall semester. Applications are accepted the previous spring. To be considered for admission the applicant must:

- Be at least 18 years of age
- Graduate from an accredited high school or earn a GED
- Be currently licensed by the State of Illinois as an EMT-B.
- Demonstrate an aptitude in college-level science course by earning a passing grade of C or better in 4 credit hour (with a lab) General Biology, Anatomy and Physiology, General Chemistry, articulated military course or successfully complete an equivalency exam. (CCC courses that apply include BIOLOGY 116 Introduction to Anatomy And Physiology, BIOLOGY 121 Biology I, BIOLOGY 226 Human Structure and Function I, and CHEM 201 General Chemistry I)
- Have a current CPR card.
- Achieve acceptable scores on admissions examination.
- Admissions cumulative GPA of 2.5 or higher.
- Submit official college transcripts
- Submit, by deadline, completed program application with transcripts, to the Paramedic Program Director at Malcolm X College.
- Ambulance experience as an EMT-B by start of program is strongly recommended.

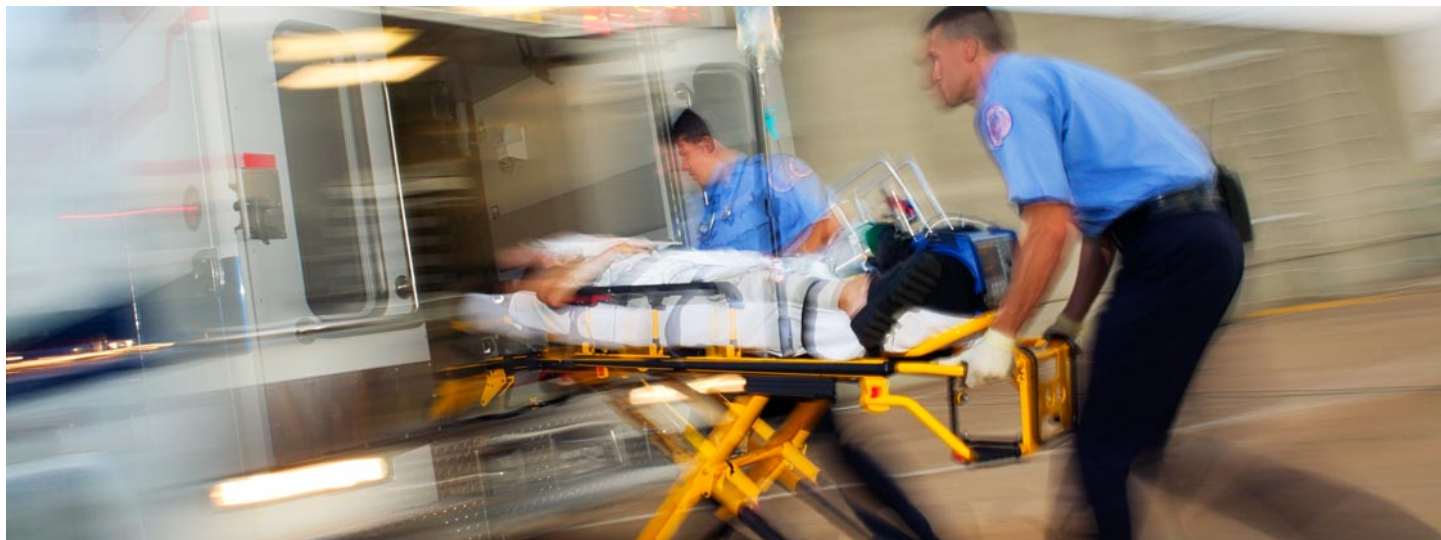
Students enrolled in a current Spring semester EMT class from any other college who have not passed the EMT licensing exam by the application deadline, are not eligible to apply. Students enrolled in the Spring semester EMT class at Malcolm X College are eligible to apply with a current course grade of B or better.

Applicant Interviews and Student Selection

Interviews with the EMS Region XI Admissions Committee are granted to those applicants who have met or exceeded admission criteria. Selection of candidates for this program is highly competitive and selections are made based on interview. Evaluation of applicant ability is based on academic history, EMS work experience, references, and communication skills. Emphasis is placed on academic history as demonstrated by GPA, and motivation as demonstrated by commitment and adaptability to the EMS field.

For more information on admissions requirements and the application process, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Paramedic-Program.aspx>).

EMT-II Paramedic, Associate in Applied Science



College(s): MX

Program Code: 0263

Malcolm X College offers the only paramedic program in the city of Chicago and is one of the few colleges in Illinois to offer an AAS degree in this professional specialty. Successful completion of the Paramedic Core Curriculum, in addition to complementary general education courses, enables the paramedic student to attain an AAS degree. Completion of the degree can broaden the student's marketability as well as provide a strong basis for continued professional learning.

This program is presented as a collaborative effort by Malcolm X College, the Chicago Fire Department, and the Chicago Resource Hospitals: Advocate Illinois Masonic Medical Center, Northwestern Memorial Hospital, and University of Chicago Hospitals. The Paramedic Program is approved and accredited by the Illinois Department of Public Health, Division of Emergency Medical Services and Highway.

The Malcolm X College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). For CAAHEP contact information, please visit www.caahep.org. The program is approved by the Illinois Department of Public Health, Division of Emergency Medical Services and Highway through JHS Cook County (Resource) Hospital.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the EMT II - Paramedic AAS at Malcolm X College, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Paramedic-Program.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
BIOLOGY 120	Terminology For Medical Careers	3
SPEECH 101	Fundamentals of Speech Communication	3
SOC 201	Intro To the Study Of Society (HD)	3
PSYCH 201	General Psychology	3
	Physical Sciences or Life Sciences	3
	Fine Arts & Humanities or Social and Behavioral Sciences	6
Required Program Core		
EMT 221	Essentials of Paramedic Medicine I	9
EMT 223	Essentials of Paramedic Medicine II	9
Required Work-Based Learning Courses		
EMT 222	Paramedic Medicine Practicum I	5.5
EMT 224	Paramedic Medicine Practicum II	7
EMT 227	Paramedic Medicine Field Internship	6
Total Hours		60.5

Pathway

This is an **example course sequence** for students interested in EMT (II)-Paramedic. If this pathway is followed as outlined, student will earn an Associate in Applied Science degree in EMT (II)-Paramedic. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Student

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
EMT 221	Essentials of Paramedic Medicine I	9
EMT 222	Paramedic Medicine Practicum I	5.5
	Hours	14.5
Semester 2		
EMT 223	Essentials of Paramedic Medicine II	9
EMT 224	Paramedic Medicine Practicum II	7
	Hours	16
Semester 3		
EMT 227	Paramedic Medicine Field Internship	6
	Hours	6
Semester 4		
ENGLISH 101	Composition ¹	3
BIOLOGY 120	Terminology For Medical Careers ¹	3
Fine Arts & Humanities or Social and Behavioral Sciences course ¹		3
SPEECH 101	Fundamentals of Speech Communication ¹	3
	Hours	12
Semester 5		
SOC 201	Intro To the Study Of Society ¹	3
PSYCH 201	General Psychology ¹	3
Physical Sciences or Life Sciences course ¹		3
Fine Arts & Humanities or Social and Behavioral Sciences course ¹		3
	Hours	12
	Total Hours	60.5

¹

General Education Requirement

Choose your courses with your College Advisor.

Program Admission Requirements

Courses run for three consecutive semesters starting each fall semester.

Applications are accepted the previous spring. To be considered for admission the applicant must:

- Be at least 18 years of age
- Graduate from an accredited high school or earn a GED
- Be currently licensed by the State of Illinois as an EMT-B.
- Demonstrate an aptitude in college-level science course by earning a passing grade of C or better in 4 credit hour (with a lab) General Biology, Anatomy and Physiology, General Chemistry, articulated military course or successfully complete an equivalency exam. (CCC courses that apply include BIOLOGY 116 Introduction to Anatomy And Physiology, BIOLOGY 121 Biology I, BIOLOGY 226 Human Structure and Function I, and CHEM 201 General Chemistry I)
- Have a current CPR card.
- Achieve acceptable scores on admissions examination.
- Admissions cumulative GPA of 2.5 or higher.
- Submit official college transcripts
- Submit, by deadline, completed program application with transcripts, to the Paramedic Program Director at Malcolm X College.
- Ambulance experience as an EMT-B by start of program is strongly recommended.

Students enrolled in a current Spring semester EMT class from any other college who have not passed the EMT licensing exam by the application deadline, are not eligible to apply. Students enrolled in the Spring semester

EMT class at Malcolm X College are eligible to apply with a current course grade of B or better.

Applicant Interviews and Student Selection

Interviews with the EMS Region XI Admissions Committee are granted to those applicants who have met or exceeded admission criteria. Selection of candidates for this program is highly competitive and selections are made based on interview. Evaluation of applicant ability is based on academic history, EMS work experience, references, and communication skills. Emphasis is placed on academic history as demonstrated by GPA, and motivation as demonstrated by commitment and adaptability to the EMS field.

For more information on admissions requirements and the application process, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Paramedic-Program.aspx>).

English as a Second Language, Basic Certificate



College(s): TR

Program Code: 0427

The purpose of the Education Department English as a Second Language (ESL) program is to prepare teachers, administrators, and school service professionals who hold an Illinois Professional Educators License to meet the state endorsement requirements for the ESL Endorsement. The ESL certificate will prepare teachers to teach in multilingual classrooms with students for whom English is not their first language. The coursework in this certificate is specifically aligned to meet the linguistics, development, education, methods, and cultural content requirements of the state endorsements including electives and an ESL practicum experience. The Education Department believes that these endorsements are of particular importance as the number of ESL students in Illinois is projected to continue to rise, and there is a declared ESL teacher shortage.

Program Requirements

Code	Title	Hours
Required Program Core		
EDUC 220	Theoretical Foundations of 2nd Language Acquisition and Learning	3
EDUC 221	Methods and Materials for Teaching ESL in PK-12	3
EDUC 223	Assessment of the Second Language Learner	3
EDUC 224	Cross Cultural Studies for Teaching Limited English Proficient Students	3
LING 102	Introduction To Linguistics	3

Required Work-Based Learning Courses

EDUC 225	Bilingual and ESL Practicum	3
Total Hours		18

Pathway

This is an **example course sequence** for students interested in pursuing English as a Second Language. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
LING 102	Introduction To Linguistics	3
EDUC 220	Theoretical Foundations of 2nd Language Acquisition and Learning	3
EDUC 221	Methods and Materials for Teaching ESL in PK-12	3
EDUC 223	Assessment of the Second Language Learner	3
EDUC 224	Cross Cultural Studies for Teaching Limited English Proficient Students	3
Hours		15
Semester 2		
EDUC 225	Bilingual and ESL Practicum	3
Hours		3
Total Hours		18

Choose your courses with your College Advisor.

Environmental Technology, Associate in Applied Science



College(s): WR

Program Code: 0160

The Associate in Applied Science degree program for Environmental Technology prepares students with the skills and knowledge needed to participate in environmental careers including environmental compliance in public and private sector organizations, pollution prevention, environmental remediation, workplace health and safety, and emergency response preparedness. You will learn to develop procedures for proper hazardous materials handling techniques and design training programs used to implement existing and future regulatory requirements to ensure compliance. Upon graduation, you will be prepared to work in the health and safety field in such positions as compliance officer, environmental safety specialist, laboratory technician, hazardous materials emergency response technician, and environmental coordinator.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
CHEM 121	Basic Chemistry I	4
CIS 120	Introduction to Computer Applications	3
Fine Arts & Humanities course ¹		3
Social and Behavioral Sciences course ¹		3
Required Program Core		
BIOLOGY 115	Human Biology	4
BIOLOGY 119	Environmental Biology	4
ENGLISH 102	Composition	3
or ENGLISH 107 Report Writing		
ENVR TC 121	Intro To Hazardous Materials Management	3
ENVR TC 131	Environmental Health & Safety	3

ENVR TC 141	Site Investigation & Sampling	3
ENVR TC 151	Intro to Environmental Laws & Policies	3
ENVR TC 175	Hazardous Material Handling & Transportation	3
ENVR TC 211	Recycling & Waste Minimizing	3
ENVR TC 241	Environmental Sampling	4
ENVR TC 243	Environmental Analysis	4
MATH 118	General Education Math (or higher)	4

Program Electives

Students should meet with a College Advisor for selection of elective courses. 8

Total Hours 68

¹

One of the courses must fulfill the Human Diversity requirement.

Pathway

This is an **example course sequence** for students interested in environmental technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Associate in Applied Science (AAS) degree in Environmental Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CHEM 121	Basic Chemistry I ¹	4
MATH 118	General Education Math (or higher)	4

CIS 120	Introduction to Computer Applications ¹	3
ENVR TC 121	Intro To Hazardous Materials Management	3
Hours		17
Semester 2		
SPEECH 101	Fundamentals of Speech Communication	3
BIOLOGY 115	Human Biology	4
ENVR TC 131	Environmental Health & Safety	3
ENVR TC 141	Site Investigation & Sampling	3
100-Level Program Elective (p. 510) ²		4
Hours		17
Semester 3		
ENGLISH 102 or ENGLISH 107	Composition ¹ or Report Writing	3
BIOLOGY 119	Environmental Biology	4
ENVR TC 151	Intro to Environmental Laws & Policies	3
ENVR TC 211	Recycling & Waste Minimizing	3
200-Level Program Elective (p. 510) ²		4
Hours		17
Semester 4		
Social and Behavioral Sciences course ¹		3
Fine Arts & Humanities course (HD) ¹		3
ENVR TC 175	Hazardous Material Handling & Transportation	3
ENVR TC 241	Environmental Sampling	4
ENVR TC 243	Environmental Analysis	4
Hours		17
Total Hours		68

1

General Education Requirement

2

Students should meet with a College Advisor for selection of elective courses.

Choose your courses with your College Advisor.

Environmental Technology, Basic Certificate



College(s): WR

Program Code: 0161

Environmental Technology, Basic Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
ENVR TC 121	Intro To Hazardous Materials Management	3
ENVR TC 131	Environmental Health & Safety	3
Program Electives		
100-level Environmental Technology electives (p. 510)		6
200-level Environmental Technology electives (p. 510)		6
Total Hours		18

Pathway

This is an **example course sequence** for students interested in environmental technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Environmental Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENVR TC 121	Intro To Hazardous Materials Management	3
Hours		3
Semester 2		
ENVR TC 131	Environmental Health & Safety	3

100-Level Program Elective (p. 510) ¹	4
Hours	7
Semester 3	
200-Level Program Elective (p. 510) ¹	4
Hours	4
Total Hours	14

¹

Program Elective

Choose your courses with your College Advisor.

Factory Automation, Advanced Certificate

College(s): DA*

Program Code: 0727

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
340MFGT 111	Machining Processes I	3
340MFGT 145	Computer Integrated Manufacturing (CIM)	3
340MFGT 151	Introduction to Welding	3
340MFGT 152	Intermediate Welding	3
340MFGT 191	Industrial Electricity	4
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 292	Principles of Mechanisms	3
340MFGT 295	Electrical Motor Controls	3
Total Hours		38

Factory Automation, Basic Certificate

College(s): DA*

Program Code: 0726

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 151	Introduction to Welding	3
340MFGT 191	Industrial Electricity	4
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 292	Principles of Mechanisms	3
340MFGT 295	Electrical Motor Controls	3
Total Hours		22

Family Childcare Business, Basic Certificate



College(s): DA*, TR*

Program Code: 0831

**Beginning Summer 2016, this program is no longer accepting new students at DA. Beginning Spring 2022, this program is no longer accepting new students at TR. Please see CCC's other Child Development offerings.*

The Family Childcare Business certificate program trains, advises, and prepares potential providers of the process involved in opening a quality home child care center. State licensing requirements, programming, staffing, health/nutrition, and child safety are covered.

Program Requirements

Code	Title	Hours
STTRDE 104	Dev. Your Family Child Care Business	1.5
Total Hours		1.5

Fire Science Management, Associate in Applied Science



College(s): MX

Program Code: 0413

The Fire Science Management degree is designed to concentrate on management and officer training with a target population of those who are already employed in a fire service and particularly addressing the specific higher education needs of the Chicago Fire Department (CFD).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
PSYCH 201	General Psychology	3
BIOLOGY 114	General Education Biology	4
	or CHEM 121 Basic Chemistry I	
Select one of the following Human Diversity (HD) courses:		
HUM 212	Non-Western Humanities	3
LIT 128	Latin American Literature	
LIT 131	Survey Of Afro-American Poetry	
LIT 150	Women's Literature	
Required Program Core		
EMT 101	Emergency Medical Technician-Basic	8
FIREMGT 101	Principles of Emergency Services	3
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 198	Strategies and Tactics II	3
FIREMGT 200	Management and Leadership I	3
FIREMGT 204	Management and Leadership II	3

FIREMGT 210	Principles of Fire Prevention	3
FIREMGT 220	Fire Instructor I	3
Program Electives		
Select a minimum of nine credit hours of the following:		9
FIREMGT 104	Occupational Safety & Health for Emergency Services	
FIREMGT 201	Fire Service Hydraulics	
FIREMGT 202	Building Construction for Fire Science	
FIREMGT 203	Fire Suppression and Protection Systems	
FIREMGT 205	Chemistry of Hazardous Materials	
FIREMGT 206	Management and Operations III	
FIREMGT 211	Management Operations IV	
FIREMGT 221	Fire Instructor II	
Total Hours		61

Pathway

This is an **example course sequence** for students interested in earning a degree in Fire Science Management. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) degree in Fire Science Management. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Check the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Fire-Science.aspx>) **for details about session dates and times.**

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
Fall		
ENGLISH 101	Composition ¹	3
BIOLOGY 114 or CHEM 121	General Education Biology ¹ or Basic Chemistry I	4
MATH 118	General Education Math ¹	4
FIREMGT 101	Principles of Emergency Services	3
Hours		14
Semester 2		
Spring		
EMT 101	Emergency Medical Technician-Basic	8
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 200	Management and Leadership I	3
Hours		14
Semester 3		
Summer		
FIREMGT 204	Management and Leadership II	3
Select one of the following:		3
HUM 212	Non-Western Humanities (HD) ¹	
LIT 128	Latin American Literature (HD) ¹	
LIT 131	Survey Of Afro-American Poetry (HD) ¹	
LIT 150	Women's Literature (HD) ¹	
Hours		6
Semester 4		
Fall		
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 220	Fire Instructor I	3
FIREMGT 206	Management and Operations III ²	3
PSYCH 201	General Psychology ¹	3
Hours		15
Semester 5		
Spring		
FIREMGT 211	Management Operations IV ²	3
FIREMGT 210	Principles of Fire Prevention	3
FIREMGT 198	Strategies and Tactics II	3
FIREMGT 221	Fire Instructor II ²	3
Hours		12
Total Hours		61

1

General Education Requirement

2

Program Elective (p. 193)

Program Elective

Associate in Applied Science Electives

Code	Title	Hours
FIREMGT 104	Occupational Safety & Health for Emergency Services	3
FIREMGT 201	Fire Service Hydraulics	3
FIREMGT 202	Building Construction for Fire Science	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 205	Chemistry of Hazardous Materials	3
FIREMGT 206	Management and Operations III	3
FIREMGT 211	Management Operations IV	3
FIREMGT 221	Fire Instructor II	3

Fire Service Operations, Associate in Applied Science



College(s): MX

Program Code: 0414

The Fire Service Operations degree focuses on fire suppression and prevention and general emergency response operations with a target population of the college student interested in a career in emergency and fire service but not yet employed by a department.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
	or SPEECH 101 Fundamentals of Speech Communication	
MATH 118	General Education Math	4
PSYCH 201	General Psychology	3
BIOLOGY 114	General Education Biology	4
SOC 201	Intro To the Study Of Society (HD)	3
Select one of the following Human Diversity (HD) Courses:		
HUM 212	Non-Western Humanities	3
LIT 128	Latin American Literature	3
LIT 131	Survey Of Afro-American Poetry	3
LIT 150	Women's Literature	3
Required Program Core		
EMT 101	Emergency Medical Technician-Basic	8
FIREMGT 101	Principles of Emergency Services	3
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 202	Building Construction for Fire Science	3
FIREMGT 203	Fire Suppression and Protection Systems	3

FIREMGT 210	Principles of Fire Prevention	3
Program Electives		
Select a minimum of 12 credits of the following:		12
FIREMGT 102	Strategies and Tactics I	
FIREMGT 104	Occupational Safety & Health for Emergency Services	
FIREMGT 198	Strategies and Tactics II	
FIREMGT 205	Chemistry of Hazardous Materials	
FIREMGT 212	Fire Investigation I	
FIREMGT 213	Fire Investigation II	
FIREMGT 220	Fire Instructor I	
FIREMGT 221	Fire Instructor II	
Total Hours		61

Pathway

This is an **example course sequence** for students interested in earning a degree in Fire Service Operations. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) degree in Fire Service Operations. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Check the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Fire-Science.aspx>) **for details about session dates and times.**

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

ENGLISH 102 or SPEECH 101	Composition ¹ or Fundamentals of Speech Communication	3
Select one of the following:		3
HUM 212	Non-Western Humanities (HD) ¹	
LIT 128	Latin American Literature (HD) ¹	
LIT 131	Survey Of Afro-American Poetry (HD) ¹	
LIT 150	Women's Literature (HD) ¹	
FIREMGT 101	Principles of Emergency Services	3
BIOLOGY 114	General Education Biology ¹	4
Hours		16
Semester 2		
EMT 101	Emergency Medical Technician-Basic	8
MATH 118	General Education Math ¹	4
FIREMGT 103	Fire Behavior and Combustion	3
Hours		15
Semester 3		
FIREMGT 212	Fire Investigation I ²	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 202	Building Construction for Fire Science	3
PSYCH 201	General Psychology ¹	3
Hours		15
Semester 4		
FIREMGT 210	Principles of Fire Prevention	3
FIREMGT 220	Fire Instructor I	3
FIREMGT 198	Strategies and Tactics II ²	3
SOC 201	Intro To the Study Of Society ¹	3
FIREMGT 104	Occupational Safety & Health for Emergency Services ²	3
Hours		15
Total Hours		61

1

General Education Requirement

2

Program Elective (p. 195)

Program Elective Associate in Applied Science Electives

Code	Title	Hours
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 104	Occupational Safety & Health for Emergency Services	3
FIREMGT 198	Strategies and Tactics II	3
FIREMGT 205	Chemistry of Hazardous Materials	3
FIREMGT 212	Fire Investigation I	3
FIREMGT 213	Fire Investigation II	3
FIREMGT 220	Fire Instructor I	3
FIREMGT 221	Fire Instructor II	3

Choose your courses with your College Advisor.

Food Sanitation, Basic Certificate

College(s): MX*

Program Code: 0253

**Beginning Summer 2018, this program is no longer accepting new students.*

Program Requirements

Code	Title	Hours
FOODSRV 222	Food Service Sanitation	2
Total Hours		2

Food Service Sanitation/ Recertification, Basic Certificate

College(s): DA*, MX*

Program Code: 0891

**Beginning Summer 2018, this program is no longer accepting new students.*

Program Requirements

Code	Title	Hours
Required Program Core		
FOODSRV 103	Food Srv Sani/Recert	1
Total Hours		1

Forklift Operation and Safety, Basic Certificate



College(s): OH

Program Code: 0848

The Forklift Operation and Safety Certificate Program prepares students to become safe and effective forklift operators. Upon completion of the program, students will have working knowledge of the basic use of lift trucks, as well as the ability to safely inspect and operate lift trucks. The curriculum includes theory and practical training.

 Future Ready Eligible

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 118	Forklift Operator	2
Total Hours		2

Game Design and Development, Associate in Applied Science



College(s): KK

Program Code: 0435

The Associate of Applied Science in Game Design and Development is designed to provide entry-level employment training, support the pursuit of advancement opportunities, and provide entrepreneurial training for those seeking to enter the gaming industry. Game design, development, testing, research, production, and business development are all skills that the program addresses. Additionally, the Game Design and Development program will provide future transfer opportunities to local universities offering baccalaureate level Game Design and Development programs.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher)	4
SPEECH 101	Fundamentals of Speech Communication	3
Fine Arts or Humanities course (HD)		3
PSYCH 201	General Psychology	3
Required Program Core		
ART 161	Freehand Drawing	3
COM DSGN 101	Introduction to Communication Design	3
COM DSGN 213	Motion Graphics II	3
GAME 105	Game Design I	3
GAME 106	Game Development and Society	3
GAME 109	Creating the Art of the Game I	3
GAME 153	Game Design II	3
GAME 160	Game Producing and Management I	3
GAME 209	Creating the Art of the Game II	3
GAME 241	Gamification	3

GAME 253	Game Design III	3
GAME 254	Game Programming	3
GAME 259	Business of Games	3
GAME 260	Game Producing and Management II	3
GAME 299	Game Studio	3
Total Hours		61

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Game Design and Development. It does not represent a contract, nor does it guarantee course availability. If the pathway is followed as outlined, you will earn an Associate in Applied Science degree in Game Design and Development. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ART 161	Freehand Drawing	3
COM DSGN 101	Introduction to Communication Design	3
GAME 105	Game Design I	3
GAME 106	Game Development and Society	3
ENGLISH 101	Composition ¹	3
Hours		15
Semester 2		
GAME 109	Creating the Art of the Game I	3
GAME 153	Game Design II	3
GAME 160	Game Producing and Management I	3

COM DSGN 213	Motion Graphics II	3
MATH 118	General Education Math ¹	4
Hours		16
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
GAME 209	Creating the Art of the Game II	3
GAME 241	Gamification	3
GAME 253	Game Design III	3
GAME 254	Game Programming	3
Hours		15
Semester 4		
GAME 259	Business of Games	3
GAME 260	Game Producing and Management II	3
GAME 299	Game Studio	3
PSYCH 201	General Psychology ¹	3
Fine Arts or Humanities Course (HD) ¹		3
Hours		15
Total Hours		61

1

General Education course

Choose your courses with your College Advisor.

Gas Utility Worker, Advanced Certificate



College(s): KK

Program Code: 0749

The Advanced Certificate program in Gas Utility Worker consists of general education courses and core courses that feature specific competencies in the safe construction and operation of natural gas distribution systems. The program takes a student through a series of basic and advanced skill sets designed to enhance on-the-job performance and to quickly bring the student to the level of a full-functioning, skilled worker once employed. Upon completion, students who graduate from this program will be prepared to work as a utility worker in the gas utility industry.

Program Requirements

Code	Title	Hours
Required Program Core		
SPEECH 101	Fundamentals of Speech Communication	3
HISTORY 113	United States Labor History	3
CIS 120	Introduction to Computer Applications	3
ENGLISH 107	Report Writing	3
MATH 107	Math For Technicians I	3
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 448	Vocational Physical Training I	1
332TECH 449	Professional Development	2
332TECH 452	Basic Electrical Theory	3
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
332TECH 503	Gas Utility Training I	6
332TECH 504	Gas Utility Training II	6
332TECH 505	Gas Utility Training III	3
332TECH 506	Gas Utility Training IV	4

432CMGT 609	Construction Safety II	3
Total Hours		50

Pathway

This is an **example course sequence** for students interested in gas utility work. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) in Gas Utility Worker. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MODULE 1		
MATH 107	Math For Technicians I	3
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 448	Vocational Physical Training I	1
MODULE 2		
SPEECH 101	Fundamentals of Speech Communication	3
HISTORY 113	United States Labor History	3
332TECH 452	Basic Electrical Theory	3
CIS 120	Introduction to Computer Applications	3
MODULE 3		
ENGLISH 107	Report Writing	3
432CMGT 609	Construction Safety II	3
332TECH 503	Gas Utility Training I	6
MODULE 4		
332TECH 504	Gas Utility Training II	6
332TECH 462	Vocational Physical Training II	1
Hours		40

Semester 2

MODULE 5

332TECH 505	Gas Utility Training III	3
332TECH 463	Vocational Physical Training III	1
332TECH 449	Professional Development	2

MODULE 6

332TECH 506	Gas Utility Training IV	4
	Hours	10
	Total Hours	50

Choose your courses with your College Advisor.

General Education Core Curriculum (GECC) Credential



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0005

The General Education Core Curriculum (GECC) Credential is a 37 credit hour transfer credential intended for students interested in completing a distribution of courses designed to satisfy the first two years of a baccalaureate degree at most four-year colleges or universities. The GECC Credential is aligned to the Associate in Arts degree and focuses on the general education requirements required for transfer. The GECC Credential is comprised of courses approved through the Illinois Articulation Initiative and must be completed according the general education categories below:

Code	Title	Hours
Communications		9
Math		3
Fine Art & Hum		9
Social & Behavioral Sciences		9
Physical and Life Science		7
Total Hours		37

Program Requirements

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Select one Math course for a minimum of three credit hours		3
MATH 118	General Education Math	
MATH 122	Math For Elementary Teachers II	
MATH 125	Introductory Statistics	
MATH 144	Finite Mathematics	

MATH 146	Discrete Mathematics	
MATH 204	Calculus For Business & Social Sciences	
MATH 207	Calculus & Analytic Geometry I	
MATH 208	Calculus & Analytic Geometry II	
MATH 209	Calculus & Analytic Geometry III	
Select three Fine Art & Hum courses for a minimum of nine credit hours ¹		9
AFRO AM 101	Introduction to African-American Studies	
ART 103	Art Appreciation	
ART 130	African-American Art	
CHINESE 104	Chinese IV	
CMMEDIA 163	Film Rhetoric	
RELIGN 101	Introduction To Religion	
RELIGN 102	The Bible - Hebrew Old Test	
RELIGN 103	The Bible - New Testament	
RELIGN 104	Islamic Scriptures: The Qur'an	
RELIGN 106	Comparative Religion I/Eastern Religion	
RELIGN 107	Com Rel II Western Religion	
FIN ART 104	The World Of The Cinema	
FIN ART 105	History of Painting, Sculpture & Architecture	
FIN ART 107	History of Architecture, Painting & Sculpture I	
FIN ART 108	Hist Of Arch Paint Sculp II	
FIN ART 109	History Of Cinema	
FIN ART 110	Opera And The Humanities	
FIN ART 111	History of Photography	
FIN ART 112	Dance Appreciation	
FIN ART 114	Film History I	
FIN ART 115	Film History II	
FRENCH 104	Fourth Course French	
FRENCH 213	Intro To Modern Literature French	
FRENCH 214	Readings In Literature French	

HUM 123	Intro To Arts & Ideas	PHIL 106	Introduction To Philosophy
HUM 143	Intro to Latin American/Latino Studies	PHIL 107	Ethics
HUM 144	Introduction to Women's and Gender Studies	PHIL 108	Philosophy Of Religion
HUM 145	Intro to Diversity/Ethnic Studies	PHIL 110	Social/Political Philosophy
HUM 146	Gay, Lesbian, Bisexual & Transgender	PHIL 201	Greek Philo To Renaissance
HUM 201	General Course I Humanities	PHIL 202	Enlightenment To Present
HUM 202	General Course II Humanities	PHIL 215	Problems In Philosophy
HUM 203	Arts of Contemporary America	PHIL 216	Critical Thinking
HUM 205	World Literature I	POLISH 104	Fourth Course Polish
HUM 207	The Great Books	SPANISH 104	Fourth Course Spanish
HUM 208	Women In Creative-Performing Arts	SPANISH 111	Spanish For Hispanos
HUM 209	Latinxs in Chicago	SPANISH 210	Modern Civilization & Culture Spanish
HUM 210	Comparative Mythology	SPANISH 213	Intro To Modern Literature Spanish
HUM 212	Non-Western Humanities	SPANISH 214	Readings In Literature Spanish
HUM 215	The Art and Philosophy of the African Continent	THR ART 131	Intro To Theater
ITALIAN 104	Fourth Course Italian	THR ART 134	Theater Diversity in the U.S.
JAPANES 104	Fourth Course Japanese	Select three Social & Behavioral Science courses for a minimum of 9 credit hours ²	
LIT 110	Introduction To Literature	ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans
LIT 111	Poetry	ANTHRO 202	Cultural Anthropology
LIT 112	Drama	ANTHRO 205	Applied Anthropology
LIT 113	Fiction	ANTHRO 206	Introduction to Archaeology
LIT 114	Ideas In Prose	ECON 201	Principles Of Economics I
LIT 115	Great Books Seminar/Topics Literature	ECON 202	Principles Of Economics II
LIT 116	American Literature from Colonial Days to Civil War	GEOG 101	World Geography
LIT 117	American Literature from the Civil War to the 20th Century	GEOG 102	Economic Geography
LIT 118	English Literature from its Beginnings to the Age of Johnson	HISTORY 111	History of American People To 1865
LIT 119	English Literature from the Romantic Revival to the 20th Century	HISTORY 112	History of American People From 1865
LIT 121	Contemporary African American Literature	HISTORY 114	The Afro-American In American History
LIT 122	Perspectives in Black Literature	HISTORY 141	History of World Civilization to 1500
LIT 123	Literature of the U.S. from the Civil War to the Present	HISTORY 142	Hist World Civiliz Frm 1500
LIT 126	Contemporary American Literature	HISTORY 215	History of Latin America
LIT 127	Contemporary British Literature	HISTORY 216	U.S. Latinx History
LIT 128	Latin American Literature	HISTORY 225	Modern Middle East History
LIT 129	U.S. Latino (a) Literature	HISTORY 243	The Far East in the Modern World
LIT 130	Children's Literature	HISTORY 247	African History to Colonial Period
LIT 132	Native American Literature	HISTORY 248	African History - Modern Period
LIT 137	The Black Woman In Black Fiction	POL SCI 200	Principles of Political Science
LIT 150	Women's Literature	POL SCI 201	The National Government
LIT 153	Gay and Lesbian Literature	POL SCI 203	Comparative Government
LIT 155	Literature and Film	POL SCI 204	International Relations
LIT 156	Creative Non-fiction	POL SCI 207	U.S. State & Local Government
LIT 211	Shakespeare	PSYCH 201	General Psychology
LIT 220	World Literature	PSYCH 207	Child Psychology
MUSIC 121	Introduction To Music	PSYCH 211	Social Psychology
MUSIC 124	Trends In Mod Amer Music	PSYCH 214	Adolescent Psychology
MUSIC 183	World Music	PSYCH 222	Adult Development And Aging
MUSIC 221	Music Literature & History	PSYCH 224	Life Span Developmental Psychology
PHIL 105	Logic	SOC SCI 101	General Course I Social Science
		SOC SCI 102	General Course II Social Science
		SOC 201	Intro To the Study Of Society

SOC 203	Marriage And The Family
SOC 205	Social Problems
SOC 207	The Sociology Of Sex & Gender
SOC 211	Race & Ethnic Relations
SOC 241	Institutional Racism

Select two Physical & Life Science courses for a minimum of 7 credit hours ³ 7

ASTROMY 201	Descriptive Astronomy
BIOLOGY 109	Human Genetics & Evolution
BIOLOGY 114	General Education Biology
BIOLOGY 115	Human Biology
BIOLOGY 119	Environmental Biology
BIOLOGY 121	Biology I
BIOLOGY 122	Biology II
BOTANY 201	General Botany I
CHEM 121	Basic Chemistry I
CHEM 201	General Chemistry I
ENVR ST 101	Man & Environment I
ENVR TC 107	Environmental Geology
GEOG 201	Physical Geography
GEOLOGY 201	Physical Geology
OCEAN 101	Intro To Oceanography
PHY SCI 101	General Course Physical Science
PHY SCI 102	General Course Physical Science
PHY SCI 107	Current Public Issues in Physical Science
PHY SCI 111	General Course I Physical Science
PHY SCI 112	General Course II Physical Science
PHY SCI 118	Introduction to Meteorology
PHYSICS 221	Mechanics, Waves, and Heat
PHYSICS 231	General Physics I: Mechanics & Wave Motion
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion

Total Hours	37
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1

At least one (1) of the courses must be from the Fine Arts category, and at least one must be from the Humanities category

2

At least two of the courses must be from different disciplines

3

At least one of the courses must be a lab course, at least one of the courses must be a Life Science category course, and at least one of the courses must be a Physical Science category

Gerontology Aide, Basic Certificate



College(s): WR*

Program Code: 0339

**Beginning Spring 2021, this program is no longer accepting new students.*

Semester 3

SOC SER 250	Practicum I	3
	Hours	3
	Total Hours	12

Choose your courses with your College Advisor.

Program Requirements

Code	Title	Hours
Required Program Core		
PSYCH 222	Adult Development And Aging	3
SOC SER 102	Introduction To Gerontology	3
SOC SER 105	Physiology of Aging	3
Required Work-Based Learning Courses		
SOC SER 250	Practicum I	3
Total Hours		12

Pathway

This is an **example course sequence** for students interested in earning an Basic Certificate (BC) in Gerontology Aide. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
PSYCH 222	Adult Development And Aging	3
SOC SER 102	Introduction To Gerontology	3
	Hours	6
Semester 2		
SOC SER 105	Physiology of Aging	3
	Hours	3

Gerontology Specialist, Associate in Applied Science



College(s): WR*

Program Code: 0340

**Beginning Spring 2021, this program is no longer accepting new students.*
Program Requirements

Code	Title	Hours
General Education Coursework		
BIOLOGY 115	Human Biology	4
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
CIS 120	Introduction to Computer Applications	3
Fine Arts & Humanities and Social and Behavioral Sciences courses ¹		6
Required Program Core		
PSYCH 222	Adult Development And Aging	3
PSYCH 223	Death, Dying & Bereavement	3
SOC SER 102	Introduction To Gerontology	3
SOC SER 103	Aging And Social Policy	3
SOC SER 105	Physiology of Aging	3
SOC SER 106	Aging And The Family	3
SOC SER 107	Aging And Leisure	3
SOC SER 202	Aging And Human Services	3
SOC SER 203	Inter Communication with the Elderly	3
SOC SER 204	Cross-Culture Studies In Gerontology	3
Required Work-Based Learning Courses		
SOC SER 250	Practicum I	3
SOC SER 251	Practicum II	3

Program Electives

Students should select a minimum of two Gerontology course electives recommended by a College Advisor.	6
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Total Hours	61
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1

One of the courses must fulfill the Human Diversity requirement.

Health Information Technology, Associate in Applied Science



College(s): MX

Program Code: 0408

The Health Information Technology (HIT) program offers an introductory career-focused educational path into the healthcare industry. This program is designed for students who aspire to become healthcare professionals in the Health Information Technology (HIT) career field that includes professional opportunities for Medical Coders and Billers. This program is designed to prepare students to successfully attain a variety of professional coding certifications such as the Certified Coding Professional (CPC) through the American Academy of Professional Coders (AAPC). The knowledge and skills upon completion of the Health Information Technology (HIT) Associate's Program will allow students to enter the vast opportunities that are available in the healthcare industry.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Health Information Technology program, including the application process, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Health-Information-Technology.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
PSYCH 201	General Psychology	3
SPEECH 101	Fundamentals of Speech Communication	3
Required Program Core		
CIS 120	Introduction to Computer Applications	3
HIT 101	Foundations of HIT	3

HIT 102	Medical Billing	4
HIT 103	Basic ICD-10-CM/PCS Coding	3
HIT 104	Basic CPT Coding	3
HIT 105	Pharmacology for HIT Professionals	2
HIT 108	Advanced ICD-10-CM/PCS Coding	3
HIT 109	Advanced CPT Coding	3
HIT 110	Medical Terms for HIT Professionals	3
HIT 201	Fundamentals of Medical Science	3
HIT 203	Reimbursement Methodologies	3
HIT 204	Health Statistics & Registries	2
HIT 213	Supervisory and Legal Aspects (HD)	3
HIT 214	Quality and Performance Improvement	3
Required Work-Based Learning Courses		
HIT 221	Professional Practice I	3
HIT 222	Professional Practice II	4
Total Hours		65

One course must fulfill the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Health Information Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Medical Billing, an Advanced Certificate (AC) in Medical Coding and an Associate in Applied Science (AAS) Degree in Health Information Technology.

The Health Information Technology (HIT) program prepares students with the knowledge, skills, and abilities to organize and manage health information data in both paper and electronic systems. Students will acquire knowledge and develop application skills for a variety of classification systems to code for reimbursement, databases and registries, and the maintenance of patients' medical and treatment

histories. Program graduates will be eligible to earn the following: a basic certificate in billing, an advanced certificate in coding and/or an AAS degree in Health Information Technology. Completion of this program leads to roles in data collection, data abstraction, enhanced coding and monitoring, maintenance and reporting activities. The Basic Certificate will prepare students to obtain entry level positions as medical billers in hospitals, physician private practices, as well as insurance companies. The Advanced Certificate in medical coding equips students for roles as medical coders in hospitals, physician private practices, as well as insurance companies. The AAS will prepare students for advanced biller/coder roles as well as for entry-level roles in the information systems department of healthcare systems and insurance companies.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 120	Introduction to Computer Applications ¹	3
	Hours	3
Semester 2		
BIOLOGY 116	Introduction to Anatomy And Physiology ^{1,2}	4
HIT 101	Foundations of HIT ¹	3
HIT 105	Pharmacology for HIT Professionals ¹	2
HIT 110	Medical Terms for HIT Professionals ¹	3
	Hours	12
Semester 3		
ENGLISH 101	Composition ²	3
HIT 102	Medical Billing	4
HIT 201	Fundamentals of Medical Science	3
PSYCH 201	General Psychology ²	3
	Hours	13
Semester 4		
HIT 103	Basic ICD-10-CM/PCS Coding	3
HIT 104	Basic CPT Coding	3
MATH 125	Introductory Statistics ²	4
SPEECH 101	Fundamentals of Speech Communication ²	3
	Hours	13
Semester 5		
HIT 108	Advanced ICD-10-CM/PCS Coding	3
HIT 213	Supervisory and Legal Aspects	3
HIT 214	Quality and Performance Improvement	3
HIT 221	Professional Practice I	3
	Hours	12
Semester 6		
HIT 109	Advanced CPT Coding	3
HIT 203	Reimbursement Methodologies	3
HIT 204	Health Statistics & Registries	2
HIT 222	Professional Practice II	4
	Hours	12
	Total Hours	65

1

Program prerequisite

2

General Education Requirement

Choose your courses with your College Advisor.

Special Admission Requirements

- Completion of pre-admission HIT requirement courses with a grade of C or higher.

Code	Title	Hours
BIOLOGY 116	Introduction to Anatomy And Physiology	4
CIS 120	Introduction to Computer Applications	3
HIT 101	Foundations of HIT	3
HIT 105	Pharmacology for HIT Professionals	2
HIT 110	Medical Terms for HIT Professionals	3
Eligibility for MATH 125		

- Cumulative GPA of 2.0 or higher.
- Submit High School Transcripts or GED Equivalent.
- Submit official college transcripts from all colleges attended outside of City Colleges of Chicago to the Malcolm X College Office of Registrar Services.
- On-campus/virtual interview, in-person interview.
- Submit one Letter of Recommendation at the time of interview.
- Once accepted to the program and prior to registration; students must complete the following:
 - Background check
 - Drug screen
 - Provide current immunization records
- Students need to have transportation to and from their clinical sites.

For more information on the Health Information Technology program, including the application process, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Health-Information-Technology.aspx>).

Hospitality Management, Advanced Certificate



College(s): KK

Program Code: 0740

The Advanced Certificate in Hospitality Management introduces students to the operations and functions of the restaurant and hotel industries from a service and management standpoint. Classes are lecture and lab based to give maximum exposure to the industry and will allow students the opportunity to interact in real-world settings. The curriculum has customer service as an underlying theme of all classes and the importance is stressed throughout each and every class throughout the program. Coursework includes management skills, financial management, restaurant and hotel operational management, resume writing and interviewing techniques.

Program Requirements

Code	Title	Hours
Required Program Core		
330CUL 700	College Success Hospitality Perspective	3
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
HMGT 724	Hospitality Management	3
HMGT 806	Customer Service Fundamentals	3
HMGT 807	Hospitality Financial Management	3
HMGT 808	Restaurant Operations	4
HMGT 810	Bar and Beverage Management	3
HMGT 812	Hotel and Lodging Operations	4
HMGT 814	Hospitality Procurement	3
Total Hours		39

Pathway

This is an **example course sequence** for students interested in earning a degree in Hospitality Management. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Culinary Arts and an Advanced Certificate (AC) in Hospitality Management. It does not represent a contract, nor does it guarantee course availability.

Student must be eligible for ENGLISH 96 Aligned Reading and Composition and MATH 98 Beginning Algebra with Geometry to begin core curriculum classes.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330CUL 700	College Success Hospitality Perspective	3
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
		Hours
		16
Semester 2		
HMGT 806	Customer Service Fundamentals	3
HMGT 807	Hospitality Financial Management	3
HMGT 724	Hospitality Management	3
HMGT 808	Restaurant Operations	4
		Hours
		13
Semester 3		
HMGT 812	Hotel and Lodging Operations	4
HMGT 814	Hospitality Procurement	3

HMGT 810	Bar and Beverage Management	3
	Hours	10
	Total Hours	39

Choose your courses with your College Advisor.

Hospitality Management, Associate in Applied Science



College(s): KK

Program Code: 0735

The Associate in Applied Science degree in Hospitality Management continues to focus on building management skills and provides for jobs as guest service agents, front office supervisors, sales managers, event planners, hotel managers, food and beverage managers, assistant food and beverage directors, food and beverage directors, beverage managers, guest services managers, and directors of catering.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math	4
	Humanities course	3
	Social and Behavioral Sciences course	3
Required Program Core		
330CUL 700	College Success Hospitality Perspective	3
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2
330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
HMGT 724	Hospitality Management	3
HMGT 806	Customer Service Fundamentals	3
HMGT 807	Hospitality Financial Management	3
HMGT 808	Restaurant Operations	4
HMGT 810	Bar and Beverage Management	3
HMGT 812	Hotel and Lodging Operations	4

HMGT 814	Hospitality Procurement	3
HMGT 816	Introduction to Hospitality Marketing Principles	3
Required Work-Based Learning Courses		
HMGT 860	Hospitality Internship	4
Program Electives		
HMGT 830 or HMGT 835	Catering and Event Management Introduction to Casino Operations Management	3
Total Hours		65

¹

One course must fulfill the Human Diversity requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Hospitality Management. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Culinary Arts and an Advanced Certificate (AC) and an Associate in Applied Science Degree (AAS) in Hospitality Management. It does not represent a contract, nor does it guarantee course availability. Courses may be substituted within the indicated categories (except Communications courses). One course will satisfy the Human Diversity (HD) requirement, and is labeled with an "HD" in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
330CUL 700	College Success Hospitality Perspective	3
330CUL 701	Intro To Food Service I	3
330CUL 703	Food Sanitation & Safety I	2

330CUL 705	Chef's Training I-Section A	4
330CUL 708	Chef's Training I-Section B	4
	Hours	16
Semester 2		
HMG 806	Customer Service Fundamentals	3
HMG 807	Hospitality Financial Management	3
HMG 724	Hospitality Management	3
HMG 808	Restaurant Operations	4
ENGLISH 101	Composition ¹	3
	Hours	16
Semester 3		
HMG 812	Hotel and Lodging Operations	4
HMG 814	Hospitality Procurement	3
HMG 810	Bar and Beverage Management	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
MATH 118	General Education Math ¹	4
	Hours	17
Semester 4		
HMG 816	Introduction to Hospitality Marketing Principles	3
HMG 860	Hospitality Internship	4
HMG 830	Catering and Event Management ²	3
or HMG 835	or Introduction to Casino Operations Management	
ANTHRO 202	Cultural Anthropology ¹	3
HUM 201	General Course I Humanities ¹	3
	Hours	16
	Total Hours	65

1

General Education Requirement

2

Program Elective

Choose your courses with your College Advisor.

Human Development and Family Studies, Advanced Certificate



College(s): TR

Program Code: 0459

The AAS degree, Advanced Certificate, and Basic Certificate credentials in Human Development and Family Studies are based on the individual and family perspective, an interdisciplinary field that integrates several behavioral, social, and biological concepts to understand human interaction and development. Program graduates work in social service agencies, retirement communities, and other geriatric facilities, non-profit and education centers.

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
ENGLISH 101	Composition	3
HDFS 202	Intimate Relationships	3
HDFS 203	Family Development/Cross Cultural Perspective	3
HDFS 211	Principles of Human Services	3
HDFS 214	Basic Applications in Human Services	3
HDFS 215	Practicum for Human Services	6
PSYCH 201	General Psychology	3
Total Hours		31

Pathway

Are you interested in learning about human development, and studying the nature of relationships and the role of families? If so, a pathway in Human Development and Family Studies might be right for you. The AAS in Human Development and Family Studies can lead to employment as a Human Services Assistant or Family Specialist in social service agencies,

Head Start daycares, community-based organizations and non-profits, among others.

This is an **example course sequence** for students interested in pursuing Human Development and Family Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Human Development and Family Studies.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
CHLD DV 101	Human Growth & Development I	4
	Hours	10
Semester 2		
CHLD DV 102	Human Growth & Development II	3
HDFS 203	Family Development/Cross Cultural Perspective	3
HDFS 211	Principles of Human Services	3
	Hours	9
Semester 3		
HDFS 202	Intimate Relationships	3
HDFS 214	Basic Applications in Human Services	3
	Hours	6
Semester 4		
HDFS 215	Practicum for Human Services	6
	Hours	6
	Total Hours	31

Human Development and Family Studies, Associate in Applied Science



College(s): TR

Program Code: 0391

The AAS degree program in Human Development and Family Studies is based on the individual and family perspective, an interdisciplinary field that integrates several behavioral, social, and biological concepts to understand human interaction and development. Program graduates work in social service agencies, retirement communities, and other geriatric facilities, non-profit and education centers.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
BIOLOGY 114	General Education Biology	4
	or BIOLOGY 114: Human Biology	
HUM 143	Intro to Latin American/Latino Studies	3
	or HUM 212 Non-Western Humanities	
MATH 125	Introductory Statistics	4
PHIL 105	Logic	3
	or PHIL 107 Ethics	
PSYCH 201	General Psychology	3
SOC 201	Intro To the Study Of Society (HD)	3
SPEECH 101	Fundamentals of Speech Communication	3
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
HDFS 202	Intimate Relationships	3
HDFS 203	Family Development/Cross Cultural Perspective	3

HDFS 211	Principles of Human Services	3
HDFS 214	Basic Applications in Human Services	3
Required Work-Based Learning Courses		
HDFS 215	Practicum for Human Services	6
Program Electives		
Select a minimum of 6 credit hours of the following:		6
ART 131	General Drawing	
ART 163	Water Color Painting	
CHLD DV 107	Health Safety And Nutrition	
CIS 120	Introduction to Computer Applications	
PSYCH 213	Abnormal Psychology	
Total Hours		60

Pathway

Are you interested in learning about human development, and studying the nature of relationships and the role of families? If so, a pathway in Human Development and Family Studies might be right for you. The AAS in Human Development and Family Studies can lead to employment as a Human Services Assistant or Family Specialist in social service agencies, Head Start daycares, community-based organizations and non-profits, among others.

This is an **example course sequence** for students interested in pursuing Human Development and Family Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC), and an Associate in Applied Science (AAS) degree in Human Development and Family Studies. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
PSYCH 201	General Psychology ¹	3
CHLD DV 101	Human Growth & Development I	4
	Hours	14
Semester 2		
ENGLISH 102	Composition	3
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition ²	3
HDFS 203	Family Development/Cross Cultural Perspective	3
HDFS 211	Principles of Human Services	3
	Hours	15
Semester 3		
PHIL 105 or PHIL 107	Logic ¹ or Ethics	3
SOC 201	Intro To the Study Of Society ¹	3
HDFS 202	Intimate Relationships	3
HDFS 214	Basic Applications in Human Services	3
PSYCH 213	Abnormal Psychology ²	3
	Hours	15
Semester 4		
HUM 143 or HUM 212	Intro to Latin American/Latino Studies (HD) ¹ or Non-Western Humanities	3
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
SPEECH 101	Fundamentals of Speech Communication ¹	3
HDFS 215	Practicum for Human Services	6
	Hours	16
	Total Hours	60

1

General Education Requirement

2

Program Elective (p. 216)

Program Electives

Code	Title	Hours
ART 131	General Drawing	3
ART 163	Water Color Painting	3
CHLD DV 107	Health Safety And Nutrition	3
CIS 120	Introduction to Computer Applications	3
PSYCH 213	Abnormal Psychology	3

Choose your courses with your College Advisor.

Human Development and Family Studies, Basic Certificate



College(s): TR

Program Code: 0425

Human Development and Family Studies, Basic Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
CHLD DV 101	Human Growth & Development I	4
HDFS 203	Family Development/Cross Cultural Perspective	3
HDFS 211	Principles of Human Services	3
Total Hours		16

Pathway

This is an **example course sequence** for students interested in pursuing Human Development and Family Studies. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Pathway for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CHLD DV 101	Human Growth & Development I ¹	4
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
Hours		10
Semester 2		
HDFS 203	Family Development/Cross Cultural Perspective	3

HDFS 211	Principles of Human Services	3
Hours		6
Total Hours		16

1

Prerequisite for HDFS 203

Choose your courses with your College Advisor.

Human Resources, Basic Certificate



College(s): HW

Program Code: 0419

The Basic Certificate program in Human Resources is designed to provide students who have little or no formal business knowledge of the Human Resources industry with introductory information and understanding of business, human resources, and employment law. Students will gain knowledge of business operations, business and human capital management, benefits and compensation, workforce planning, organizational development, employment law, and soft skills.

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 211	Business Law I	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
BUSINES 273	Organizational Behavior	3
BUSINES 278	Compensation & Benefits Administration	3
BUSINES 279	Human Resources Planning & Staffing	3
Program Electives		
BUSINES 214 or BUSINES 284	The Legal & Social Environment of Business or Business Communications	3
Total Hours		24

Pathway

This is an **example course sequence** for students interested in pursuing Human Resources. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate.

Semester-by-Semester Program Plan for Full-Time Student

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
BUSINES 269	Principles Of Management	3
BUSINES 211	Business Law I	3
BUSINES 271	Human Resources Management	3
Hours		12
Semester 2		
BUSINES 214 or BUSINES 284	The Legal & Social Environment of Business or Business Communications	3
BUSINES 273	Organizational Behavior	3
BUSINES 278	Compensation & Benefits Administration	3
BUSINES 279	Human Resources Planning & Staffing	3
Hours		12
Total Hours		24

Choose your courses with your College Advisor.

Industrial Supervision Engineering Technology, Advanced Certificate



College(s): DA

Program Code: 0454

Supervisors are the manufacturing company leaders that organize the production operations to achieve production goals, improvements and targets. Students in this program will gain an understanding of production process, robotics, and quality assurance process to be able to be knowledgeable of the operations they may be responsible for leading.

Students take courses in production processes with hands on labs as well as in management, human resources, project management and supervision to be knowledgeable of the many facets involved with leading a production team.

Program Requirements

Code	Title	Hours
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
BUSINES 111	Introduction To Business	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
Total Hours		30

Technology and CNC Technology and an Advanced Certificate (AC) in Industrial Supervision Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
BUSINES 111	Introduction To Business	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
Hours		15
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing

Industrial Supervision Engineering Technology, Associate in Applied Science



College(s): DA

Program Code: 0455

Supervisors are the manufacturing company leaders that organize the production operations to achieve production goals, improvements and targets. Students in this program will gain a solid overview of production process, robotics, and quality assurance process and maintenance techniques commonly found in industrial manufacturing plants to be knowledgeable of the operations they may be responsible for in their career. Students take courses in production process with hands on labs as well as in management, human resources, project management and supervision to be knowledgeable of the many facets involved with leading a production team. Students are also able to continue their studies to pursue a Bachelor's Degree at other institutions to further advance their skills in this exciting aspect of manufacturing and production.

Program Requirements

Code	Title	Hours
General Education Requirements ¹		
MATH 140	College Algebra	4
ENGLISH 101	Composition	3
Social and Behavioral Sciences		3
Fine Arts/Humanities		3
Physical Sciences/Life Sciences		3
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3

340MFGT 153	Welding I GMAW	3
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 188	Industrial Electricity I	3
340MFGT 272	QUALITY SYSTEMS II	3
340MFGT 287	Maintenance Technologies I	3
BUSINES 111	Introduction To Business	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
Electives		
Choose one additional course from 340MFGT ²		3
Total Hours		61

1

At least one course must meet the Human Diversity (HD) (p. 438) requirement.

2

340MFGT Manufacturing courses can be found here (p. 545)

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology, and an Advanced Certificate (AC) and Associate in Applied Science (AAS) in Industrial Supervision Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
BUSINES 111	Introduction To Business	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
BUSINES 269	Principles Of Management	3
ENGLISH 101	Composition ¹	3
Hours		15
Semester 3		
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 188	Industrial Electricity I	3
BUSINES 271	Human Resources Management	3
MATH 140	College Algebra ¹	4
Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 4		
340MFGT 172	Quality Systems I	3
340MFGT 287	Maintenance Technologies I	3
340MFGT Manufacturing Elective (p. 545)		3
Fine Arts/Humanities course (HD) ¹		3
Physical Sciences/Life Sciences course ¹		3
Hours		15
Total Hours		61

¹

General Education course

Choose your courses with your College Advisor.

Industrial Welding Technology, Basic Certificate

College(s): DA*

Program Code: 0827

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Welding offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 131	Machine Shop Math I	2
STTRDE 132	Introduction to Welding Principles	3
STTRDE 133	Intermediate Welding	3
STTRDE 134	Blueprint Reading for Welders	2
STTRDE 135	Advanced Welding	3
Total Hours		13

Industrial Welding, Basic Certificate

College(s): DA*

Program Code: 0423

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 151	Introduction to Welding	3
340MFGT 152	Intermediate Welding	3
Total Hours		6

iOS and MacOS Development, Basic Certificate



College(s): TR

Program Code: 0460

The iOS and MacOS Development basic certificate (BC) program will guide students through a full exploration of coding tasks via various teaching modalities to develop, design, and build applications for Apple devices and environments. Students will create a digital portfolio where they will maintain ideas, prototypes, and apps as well as explore design concepts, advertising, and management of various support software applications. Student will gain knowledge and skill to management devices and software.

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 103	Fundamentals of Programming	3
CIS 117	Introduction to Apple Development	3
CIS 201	Advanced Apple Development	3
NET TEC 101	Client-Server Database I	3
Program Electives		6
Select two of the following courses:		
CIS 119	Apple User Management	
CIS 113	Human-Computer Interaction	
EDUC 226	Foundations of Educational Technology	
Total Hours		18

Pathway

This is an **example course sequence** for students interested in pursuing iOS and MacOS Development. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed

as outlined, you will earn a Basic Certificate (BC) in iOS and MacOS Development.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 103	Fundamentals of Programming	3
CIS 117	Introduction to Apple Development	3
Hours		6
Semester 2		
CIS 201	Advanced Apple Development	3
Program Elective (p. 224) ¹		3
Hours		6
Semester 3		
NET TEC 101	Client-Server Database I	3
Program Elective (p. 224) ¹		3
Hours		6
Total Hours		18

1

Program Elective (p. 224)

Program Electives

Code	Title	Hours
CIS 113	Human-Computer Interaction	3
CIS 119	Apple User Management	3
EDUC 226	Foundations of Educational Technology	3

Choose your courses with your College Advisor.

Learning Behavior Specialist 1, Basic Certificate



College(s): TR*

Program Code: 0443

**This program will begin accepting students in Spring 2022*

The Basic Certificate-Learning Behavior Specialist (LBS1) Endorsement is for undergraduate degree holders with an Illinois Professional Educator License. The Learning Behavior Specialist (LBS1) Endorsement prepares students to teach in special education settings.

Program Requirements

Code	Title	Hours
Required Program Core		
EDUC 120	Survey of Characteristics	4
EDUC 121	Principles and Practice	4
EDUC 122	Psychological Diagnosis	4
Program Electives		
Select one of the following:		3
CHLD DV 205	Development of Exceptional Child	
EDUC 171	Language and Literacy in ECSE	
EDUC 203	Educational Psychology	
EDUC 220	Theoretical Foundations of 2nd Language Acquisition and Learning	
Any general PSYCH or SOC SCI course		
Total Hours		15

Pathway

This is an **example course sequence** for students interested in earning a Learning Behavior Specialist 1 Endorsement. It does not represent a contract, nor does it guarantee course availability. If this pathway is

followed as outlined, you will earn a Basic Certificate (BC) in Learning Behavior Specialist 1.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
EDUC 120	Survey of Characteristics	4
EDUC 121	Principles and Practice	4
Hours		8
Semester 2		
EDUC 122	Psychological Diagnosis	4
Select one of the following: ¹		3
CHLD DV 205	Development of Exceptional Child	
EDUC 171	Language and Literacy in ECSE	
EDUC 203	Educational Psychology	
PSYCH 207	Child Psychology	
SOC SCI 101	General Course I Social Science	
Hours		7
Total Hours		15

¹
Program elective

Special Admission Requirements

In order to be admitted to the program participants must:

- 1) hold a bachelor's degree; and
- 2) Illinois professional educator license (PEL)

Library Technical Assistant, Associate in Applied Science

College(s): WR*

Program Code: 0303

**This program is no longer accepting new students*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		15
Required Program Core		
LIB TEC 101	Intro To Library Procedures	3
LIB TEC 102	Multi-Media Technologies	3
LIB TEC 201	Library Public Service	3
LIB TEC 203	Materials Preparation Procedures	3
CIS 120	Introduction to Computer Applications	3
CIS 158	Web Development I	3
Required Work-Based Learning Courses		
LIB TEC 125	Learning Resource/Library Practicum	6
Program Electives		
Students should meet with a College Advisor for selection of elective courses.		18
Total Hours		60

1

Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social and Behavioral Sciences, or Physical Sciences & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement

Library Technical Assistant, Basic Certificate

College(s): WR*

Program Code: 0330

**This program is no longer accepting new students*

Program Requirements

Code	Title	Hours
Required Program Core		
LIB TEC 101	Intro To Library Procedures	3
LIB TEC 102	Multi-Media Technologies	3
LIB TEC 201	Library Public Service	3
LIB TEC 203	Materials Preparation Procedures	3
Total Hours		12

Mammography, Basic Certificate



College(s): MX

Program Code: 0431

The Mammography Program provides licensed radiologic technologists with the opportunity to develop discipline-specific knowledge and skills to meet the Mammography Quality Standards Act guidelines and to become certified by the American Registry of Radiologic Technologists as a diagnostic mammography technologist.

For more information on the Mammography Program at Malcolm X College, visit the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Mammography-Technology.aspx>).

- Move, adjust and position patients for mammography exams
- Move, adjust and manipulate equipment to perform mammographic procedures
- Possess visual acuity to review and evaluate images to determine image quality
- Communicate clearly, both orally and in writing, with patients, doctors and other personnel, and have the ability to follow written and verbal directions

To learn more about the Mammography Program at Malcolm X College, including the application process, visit the program website (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Mammography-Technology.aspx>).

Program Requirements

Code	Title	Hours
Required Program Core		
RADIOGR 261	Patient Care and Pathology	1
RADIOGR 262	Anatomy, Physiology and Procedures	2
RADIOGR 263	Imaging Production and QA	1
RADIOGR 265	Mammography Clinical Education	5
Total Hours		9

Program Admission Requirements

Technical Standards for Acceptance

- ARRT certification
- BLS certification
- IEMA license

To participate in the clinical education portion of the Mammography Program, the student must possess additional nonacademic skills. These technical standards are consistent with the duties of the entry-level Mammographer in a professional position. The applicant should have the ability to:

Management/Marketing, Basic Certificate



College(s): DA*, HW*, KK*, OH*, TR, WR*

Program Code: 0023

**Beginning Summer 2016, this program is no longer accepting new students at DA, HW, KK, MX, OH, or WR. Please refer to CCC's other Business offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
Select one of the following:		3
BUSINES 141	Business Mathematics	
MATH 118	General Education Math (or higher Mathematics)	
Select a minimum of 9 credit hours of the following:		9
BUSINES 231	Marketing	
BUSINES 236	Advertising	
BUSINES 237	Selling	
BUSINES 258	Small Business	
BUSINES 269	Principles Of Management	
Select one of the following:		3
ENGLISH 101	Composition	
SPEECH 101	Fundamentals of Speech Communication	
SPEECH 160	Business & Professional Speech	
Total Hours		18

Management/Marketing, Advanced Certificate

College(s): DA*, HW*, KK*, OH*, TR*, WR*

Program Code: 0022

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other Business offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
Select one of the following:		3
BUSINES 141	Business Mathematics	
MATH 118	General Education Math (or higher Mathematics)	
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
Select one of the following:		3
BUSINES 211	Business Law I	
BUSINES 212	Business Law II	
BUSINES 214	The Legal & Social Environment of Business	
BUSINES 231	Marketing	3
BUSINES 241	Introduction To Finance	3
BUSINES 269	Principles Of Management	3
CIS 120	Introduction to Computer Applications	3
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Total Hours		35

Management/Marketing, Associate in Applied Science



College(s): DA, HW*, KK, OH, TR, WR

Program Code: 0021

The Associate in Applied Science degree program in Management/Marketing is the study of basic business skills along with more in-depth study in a chosen field such as management, marketing, or entrepreneurship. Completion of the program can lead to employment as assistant, trainee, supervisor, or manager in manufacturing, merchandising, service firms, or government service. The program also prepares graduates to start a business or improve the operations of a business that currently exists.

**This program has a selective enrollment process at Harold Washington College*

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
	Fine Arts and Humanities course	3
	Mathematics or Physical Sciences or Life Sciences course	3
	Social and Behavioral Sciences courses	3
Required Program Core		
Select one of the following:		3
BUSINES 141	Business Mathematics	
MATH 118	General Education Math (or higher Mathematics)	
SOC 201	Intro To the Study Of Society	3
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4

BUSINES 231	Marketing	3
BUSINES 269	Principles Of Management	3
Select one of the following:		3
BUSINES 211	Business Law I	
BUSINES 212	Business Law II	
BUSINES 214	The Legal & Social Environment of Business	
Program Electives		
Select eight of the following:		24
COOP EX 105	Business Technologies CWE	
COOP EX 205	Business Technologies CWE	
BUSINES 161	Prin Of Bank Operations	
BUSINES 180	Fundamentals Of Accounting	
BUSINES 182	Managerial Accounting	
BUSINES 183	Payroll Accounting	
BUSINES 203	Intro Cost Accounting	
BUSINES 204	Computer Applications Intermediate Accounting	
BUSINES 206	Auditing	
BUSINES 208	Federal Income Tax	
BUSINES 213	Data Visualization and Presentation for Business	
BUSINES 216	Entrepreneurship	
BUSINES 221	Insurance	
BUSINES 232	Fundamentals of International Business	
BUSINES 237	Selling	
BUSINES 241	Introduction To Finance	
BUSINES 250	Computerized Accounting Systems	
BUSINES 263	Property and Liability Insurance	
BUSINES 264	Personal Insurance	
BUSINES 265	Commercial Insurance	

BUSINES 271	Human Resources Management
BUSINES 272	Sales Management
BUSINES 273	Organizational Behavior
BUSINES 278	Compensation & Benefits Administration
BUSINES 279	Human Resources Planning & Staffing
BUSINES 281	Corporate Organizations: Understanding Business Processes
BUSINES 284	Business Communications
BUSINES 291	Leadership
CIS 101	Computer Science 101
CIS 111	Computer Operations
CIS 116	Operating System I
CIS 120	Introduction to Computer Applications
CIS 123	Microcomputer Spreadsheets
CIS 145	Database Management
CIS 158	Web Development I
COMPSFI 102	Information Security Essentials
COMPSFI 231	Internetworking Security
NET TEC 101	Client-Server Database I
NET TEC 121	Internetworking I
NET TEC 122	Internetworking II

Total Hours	61
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1

At least one course must meet the Human Diversity (HD) requirement.

Manufacturing Technology, Basic Certificate



College(s): DA

Program Code: 0446

This is an entry level certificate that all Applied Engineering students will proceed through prior to pursuing specific focus areas. This program will give the student a broad overview and introduction to the technologies and processes in manufacturing. Studies include, robotics, fluid power, industrial electricity and controls, welding theory, CNC (computer numerical control) theory, CAD (Computer Aided Design) and Rapid Prototyping (maker spaces). Students will learn safety, math and material science while learning about the manufacturing technologies in this program



Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
Total Hours		12

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in CNC Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed

as outlined, you will earn Basic Certificates (BCs) in Manufacturing Technology and CNC Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
Hours		12
Total Hours		12

Manufacturing Technology, Advanced Certificate

College(s): DA*

Program Code: 0771

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Advanced Manufacturing offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
340MFGT 102	Blueprint Reading, Dimensioning and Tolerances	3
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
340MFGT 191	Industrial Electricity	4
340MFGT 201	Supervised Work Based Learning	3
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 292	Principles of Mechanisms	3
Total Hours		35

Manufacturing Technology, Associate in Applied Science



College(s): DA

Program Code: 0770

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
General Education		
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
Fine Arts & Humanities		3
Social and Behavioral Sciences		3
Fine Arts & Humanities or Social and Behavioral Sciences		3
Required Program Core		
340MFGT 138	Intro to Solidworks	3
340MFGT 139	Print Requirements-Quality Assurance	3
340MFGT 141	Manufacturing Materials & Processes	3
340MFGT 191	Industrial Electricity	4
340MFGT 292	Principles of Mechanisms	3
Program Electives		
Select 30 credit hours of program electives (p. 235)		30
Total Hours		62

Program Electives

Code	Title	Hours
340MFGT 104	Statistical Process Control	3
340MFGT 111	Machining Processes I	3
340MFGT 112	Machining Processes II	3
340MFGT 123	CNC Milling Operations & Programming	3
340MFGT 137	CNC Turning Operations & Programming	3
340MFGT 140	CNC Fundamentals	3
340MFGT 142	Geometric Dimensioning and Tolerancing	3
340MFGT 143	Advanced Metrology	3
340MFGT 144	Wire Electrical Discharge Machining	3
340MFGT 207	Introduction to MASTERCAM	3
340MFGT 145	Computer Integrated Manufacturing (CIM)	3
340MFGT 151	Introduction to Welding	3
340MFGT 152	Intermediate Welding	3
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 295	Electrical Motor Controls	3
BUSINES 111	Introduction To Business	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 237	Selling	3
BUSINES 269	Principles Of Management	3
BUSINES 274	Industrial Management	3
INTDSP 102	Career Development and Decision Making	3

At least one course must meet the Human Diversity (HD) requirement.

Mechatronics Engineering Technology, Advanced Certificate



College(s): DA

Program Code: 0452

This Advanced Certificate is for those students looking to work within industrial maintenance, the field of automation and with robotics and PLCs (Programmable Logic Controls). Students will study mechanical skills necessary for repairing, installing and modifying industrial mechatronic systems and practice these skills in the hands on labs for PLCs, robotics, mechanisms and automation. Mechatronic skills are desired by manufacturers for roles in automating and maintaining production systems. Companies are looking for employees with these skills in the automated warehouse, automotive assembly and various automated manufacturing industries.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 188	Industrial Electricity I	3
340MFGT 189	Industrial Electricity II - Motors	3
340MFGT 288	Industrial Electricity III - PLC's I	3
Total Hours		30

nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology and an Advanced Certificate (AC) in Mechatronics Engineering Technology.

Semester-by-Semester Pathway for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 153	Welding I GMAW	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 188	Industrial Electricity I	3
340MFGT 189	Industrial Electricity II - Motors	3
340MFGT 288	Industrial Electricity III - PLC's I	3
Hours		15
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract,

Mechatronics Engineering Technology, Associate in Applied Science



College(s): DA

Program Code: 0453

The Mechatronics Engineering Technology Associate in Applied Science degree is for those students looking to work within industrial maintenance, the field of automation and with robotics and PLCs (Programmable Logic Controls). Students will study mechanical skills necessary for repairing, installing and modifying industrial mechatronic systems and practice these skills in the hands on labs for PLCs, robotics, mechanisms and automation. #Mechatronic skills are desired by manufacturers for roles in automating and maintaining production systems. #Companies are looking for employees with these skills in the automated warehouse, automotive assembly and various automated manufacturing industries. Industrial Maintenance technicians are needed in every manufacturing production facility to maintain, repair and install the equipment utilized in the production processes manufacturing companies utilize. In addition to careers in industry, students are able to continue their studies in Bachelor's degree programs if desired.

Program Requirements

Code	Title	Hours
General Education Requirements ¹		
MATH 140	College Algebra	4
ENGLISH 101	Composition	3
Social and Behavioral Sciences		3
Fine Arts/Humanities		3
Physical Sciences/Life Sciences		3
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3

340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 188	Industrial Electricity I	3
340MFGT 189	Industrial Electricity II - Motors	3
340MFGT 208	ROBOTICS II - ROBOTC INTEGRATION	3
340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 287	Maintenance Technologies I	3
340MFGT 288	Industrial Electricity III - PLC's I	3
340MFGT 289	INDUSTRIAL ELECTRICITY IV - PLC'S II	3
340MFGT 290	Process Technology I	3

Total Hours 61

1

At least one course must meet the Human Diversity (HD) (p. 438) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology, and an Advanced Certificate (AC) and Associate in Applied Science (AAS) in Mechatronics Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 188	Industrial Electricity I	3
	Hours	15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 189	Industrial Electricity II - Motors	3
ENGLISH 101	Composition ¹	3
	Hours	15
Semester 3		
340MFGT 209	Computer Aided Manufacturing (CAM) I	3
340MFGT 288	Industrial Electricity III - PLC's I	3
340MFGT 290	Process Technology I	3
	Social and Behavioral Sciences course (HD) ¹	3
MATH 140	College Algebra ¹	4
	Hours	16
Semester 4		
340MFGT 208	ROBOTICS II - ROBOTC INTEGRATION	3
340MFGT 287	Maintenance Technologies I	3
340MFGT 289	INDUSTRIAL ELECTRICITY IV - PLC'S II	3
	Fine Arts/Humanities course (HD) ¹	3
	Physical Sciences/Life Sciences course ¹	3
	Hours	15
	Total Hours	61

¹

General Education course

Choose your courses with your College Advisor.

Media Communications, Associate in Applied Science



College(s): KK

Program Code: 0083

The Associate in Applied Science degree program in Media Communications is a modification and extension of the former Radio and TV Broadcasting Program. Students may choose specialized courses that qualify them in the following areas:

1. Audio/Video/Internet Production (AVIP), which include Television;
2. Radio Production/Broadcasting;
3. Media Sales and Marketing; and
4. Interactive Media Design.

All areas emphasize the use of technology, including computers. Therefore, computer literacy is required for successful completion of this program. The program prepares graduates for entry level positions in related fields and for possible transfer to a four-year institution.

In the **Audio/Video/Internet Production (AVIP)** specialty area, you will learn to create short video and audio projects and learn all facets of video and audio production from program design (pre-production), and hands-on recording (production) through the editing process (post-production). You will take courses in web-casting and streaming media using state-of-the-art digital technology, facilities, and instruction. By the end of the program, you will have basic knowledge of lighting, camera operation, storyboarding and basic scripting, editing, sound, and producing techniques. Students will assume roles as producers, directors, camera operators and video editors. Pre- and post-production, scripting, graphics, lighting, legal requirements, and nonlinear video editing skills will be emphasized.

The **Radio Production/Broadcasting** course of study provides a comprehensive overview of the Media Communications industry with

a focus in radio. The program provides a real world, hands-on overview of the art and business of radio broadcasting, while developing in-depth knowledge and skills regarding the total operation of a radio station, including the history of radio broadcasting from its inception to the latest radio technology. The program will train students in the areas of on-air talent, production, programming, or business, which includes radio marketing, promotions, and sales.

Program Requirements - Audio/Video/Internet Production (AVIP) Track

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher Mathematics)	3
	Fine Arts & Humanities course	3
	Select six additional credit hours of IAI approved courses in addition to the above courses	6
Required Program Core		
MEDIACM 145	Intro To Media Communication	3
MEDIACM 203	Media Writing	3
MEDIACM 223	Advanced Broadcast Writing	3
MEDIACM 265	Digital Media Entrepreneurship	3
MEDIACM 271	Intro to Interactive Media	3
MEDIACM 298	Audio, Video or Internet Capstone	3
Required Specialty Courses		
MEDIACM 231	TV Production I	3
MEDIACM 232	TV Production II	3
MEDIACM 240	Minicam & Videotape Editing	3

MEDIACM 250	Mini-Cam & Video Editing II	3
MEDIACM 280	Advanced Editing, Graphics, and Animation	3
DMD 115	Digital Audio	3
COM DSGN 102	Website Design I	3

Required Work-Based Learning Courses

MEDIACM 295	Practicum Internship	3
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Program Electives

Select a minimum of 3 credit hours of the following recommended courses or others as suggested by a College Advisor: 3

MEDIACM 102 Announcing

MEDIACM 234 Producing for Television

MEDIACM 245 Advanced Production Workshop

COM DSGN 104 Digital Photography

COM DSGN 202 Website Design II

Total Hours		60
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1

One course must fulfill the Human Diversity (HD) requirement

Program Requirements - Radio Production/Broadcasting Track

Code	Title	Hours
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General Education Coursework¹

ENGLISH 101	Composition	3
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MATH 118	General Education Math (or higher Mathematics)	3
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Fine Arts & Humanities course		3
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Select six additional credit hours of IAI approved courses in addition to the above courses 6

Required Program Core

MEDIACM 145	Intro To Media Communication	3
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MEDIACM 203	Media Writing	3
-------------	---------------	---

MEDIACM 223	Advanced Broadcast Writing	3
-------------	----------------------------	---

MEDIACM 265	Digital Media Entrepreneurship	3
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MEDIACM 271	Intro to Interactive Media	3
-------------	----------------------------	---

MEDIACM 298	Audio, Video or Internet Capstone	3
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Required Specialty Courses

MEDIACM 102	Announcing	3
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MEDIACM 221	Radio Production I	3
-------------	--------------------	---

MEDIACM 222	Radio Production II	3
-------------	---------------------	---

MEDIACM 245	Advanced Production Workshop	3
-------------	------------------------------	---

MEDIACM 252	Audio Engineering I	3
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DMD 115	Digital Audio	3
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SPEECH 101	Fundamentals of Speech Communication	3
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Required Work-Based Learning Courses

MEDIACM 295	Practicum Internship	3
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Program Electives

Select a minimum of 3 credit hours of the following recommended courses or others as suggested by a College Advisor: 3

COM DSGN 104 Digital Photography

ENGLISH 105 Business Writing

ENGLISH 107 Report Writing

SPEECH 160	Business & Professional Speech	
Total Hours		60

1

One course must fulfill the Human Diversity (HD) requirement

Semester-by-Semester Program Plan for Full-Time Students - AVIP Track

This is an **example course sequence** for students interested in earning a degree in Media Communications: Audio/Video/Internet/Production (AVIP). If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Media Communications. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MEDIACM 145	Intro To Media Communication	3
MEDIACM 203	Media Writing	3
MEDIACM 231	TV Production I	3
MEDIACM 240	Minicam & Videotape Editing	3
Hours		15
Semester 2		
Social and Behavioral Sciences course ¹		3
DMD 115	Digital Audio	3
MEDIACM 223	Advanced Broadcast Writing	3
MEDIACM 232	TV Production II	3
MEDIACM 250	Mini-Cam & Video Editing II	3
Hours		15
Semester 3		
MATH 118	General Education Math ¹	4
MEDIACM 271	Intro to Interactive Media	3
MEDIACM 280	Advanced Editing, Graphics, and Animation	3
MEDIACM 295	Practicum Internship	3
COM DSGN 102	Website Design I	3
Hours		16
Semester 4		
MEDIACM 265	Digital Media Entrepreneurship	3
MEDIACM 298	Audio, Video or Internet Capstone	3
Fine Arts & Humanities course ¹		3
Human Diversity (HD) course ¹		3
Program Elective (p. 241) ²		3
Hours		15
Total Hours		61

1

General Education Requirement

2

Program Elective (p. 241)

Program Electives

Code	Title	Hours
MEDIACM 102	Announcing	3
MEDIACM 234	Producing for Television	3
MEDIACM 245	Advanced Production Workshop	3

COM DSGN 104	Digital Photography	3
COM DSGN 202	Website Design II	3

SPEECH 160	Business & Professional Speech	3
COM DSGN 104	Digital Photography	3

Choose your courses with your College Advisor.

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - Radio Production/Broadcasting Track

This is an **example course sequence** for students interested in earning a degree in Media Communications: Radio Production and Broadcasting. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Media Communications. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MEDIACM 102	Announcing	3
MEDIACM 145	Intro To Media Communication	3
MEDIACM 203	Media Writing	3
MEDIACM 221	Radio Production I	3
Hours		15
Semester 2		
MATH 118	General Education Math ¹	4
MEDIACM 222	Radio Production II	3
MEDIACM 223	Advanced Broadcast Writing	3
DMD 115	Digital Audio	3
Human Diversity (HD) course ¹		3
Hours		16
Semester 3		
MEDIACM 271	Intro to Interactive Media	3
MEDIACM 245	Advanced Production Workshop	3
MEDIACM 252	Audio Engineering I	3
Fine Arts & Humanities course ¹		
SPEECH 101	Fundamentals of Speech Communication	3
Hours		12
Semester 4		
MEDIACM 265	Digital Media Entrepreneurship	3
MEDIACM 295	Practicum Internship	3
MEDIACM 298	Audio, Video or Internet Capstone	3
Social and Behavioral Sciences course ¹		3
Program Elective (p. 241) ²		3
Hours		15
Total Hours		58

¹
 General Education Requirement

²
 Program Elective (p. 242)

PROGRAM ELECTIVES

Code	Title	Hours
ENGLISH 105	Business Writing	3
ENGLISH 107	Report Writing	1-3

Medical Assisting, Advanced Certificate



College(s): MX

Program Code: 0421

The Advanced Certificate program in Medical Assisting prepares students to become multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures in a doctor's office, clinic, hospital, or other medical setting.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Medical Assisting program at Malcolm X College, visit the program website (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Medical-Assisting-Program.aspx>).

Program Requirements

Code	Title	Hours
Required Program Core		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
BIOLOGY 120	Terminology For Medical Careers	3
MEDASST 102	Medical Law & Ethics	3
MEDASST 105	Medical Careers Professional Development	2
MEDASST 103	Medical Assisting Clinical Procedures I	3
MEDASST 104	Medical Assisting Clinical Procedures II	3
MEDASST 106	Administrative Procedures	3
MEDASST 107	Pharmacology	4
MEDASST 108	Fundamentals of Ambulatory Billing and Coding	3
Required Work-Based Learning Courses		
MEDASST 109	Medical Assisting Practicum	3
Total Hours		31

Pathways

These are **example course sequences** for students interested in medical assisting, one for full-time students and one for part-time students. If either pathway is followed as outlined, you will earn an Advanced Certificate (AC) in Medical Assisting. This does not represent a contract, nor does it guarantee course availability.

The Advanced Certificate program for Medical Assisting prepares students to become multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures in a doctor's office, clinic, hospital, or other medical setting.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
Fall		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
MEDASST 102	Medical Law & Ethics	3
MEDASST 103	Medical Assisting Clinical Procedures I	3
MEDASST 105	Medical Careers Professional Development	2
MEDASST 106	Administrative Procedures	3
		Hours
		15
Semester 2		
Spring		
BIOLOGY 120	Terminology For Medical Careers	3
MEDASST 104	Medical Assisting Clinical Procedures II	3
MEDASST 107	Pharmacology	4
MEDASST 108	Fundamentals of Ambulatory Billing and Coding	3
		Hours
		13
Semester 3		
Summer		

MEDASST 109	Medical Assisting Practicum	3
	Hours	3
	Total Hours	31

Semester-by-Semester Program Plan for Part-Time Students

Course	Title	Hours
Semester 1		
Spring		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
MEDASST 103	Medical Assisting Clinical Procedures I	3
MEDASST 106	Administrative Procedures	3
	Hours	10
Semester 2		
Summer		
BIOLOGY 120	Terminology For Medical Careers	3
MEDASST 104	Medical Assisting Clinical Procedures II	3
MEDASST 105	Medical Careers Professional Development	2
	Hours	8
Semester 3		
Fall		
MEDASST 102	Medical Law & Ethics	3
MEDASST 107	Pharmacology	4
MEDASST 108	Fundamentals of Ambulatory Billing and Coding	3
	Hours	10
Semester 4		
Spring		
MEDASST 109	Medical Assisting Practicum	3
	Hours	3
	Total Hours	31

Choose your courses with your College Advisor.

Special Admission Requirements

To apply for the Medical Assisting program, students must:

- Be eligible for ENGLISH 101 Composition
- Be eligible for MATH 118 General Education Math (or higher)
- Submit official college transcripts from all accredited colleges attended outside of City Colleges to the Malcolm X College Office of Registrar Services
- Interview with the Program Director

For more information on admissions requirements and the application process, visit the program website (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Medical-Assisting-Program.aspx>).

Medical Billing, Basic Certificate



College(s): MX

Program Code: 0395

The Basic Certificate in Medical Billing is designed to provide students with the suitable education and hands-on skills necessary for entry-level positions as medical insurance billers for offices, clinics, billing services, and other facilities. Students will develop application skills for a variety of classification systems to code for reimbursement, databases and registries, and the maintenance of patients' medical and treatment histories. Students learn how to accurately process health insurance claims with an emphasis on all aspects of medical insurance including: plan options, payer requirements, state and federal regulations, abstracting of source documents, the accurate completion of claims, along with the coding of diagnoses and procedures/services. In addition, students acquire knowledge about major insurance programs, the healthcare delivery system in the United States, and federal healthcare legislation. The content of this program also includes the study of origin and purpose, along with content, order, analysis, use of medical records, methods of retrieving, numbering, and the retention of health information. The focus of the program is on correlating health information with billing procedures in different healthcare settings. After the completion of the Medical Billing Basic Certificate the students can seamlessly transfer all of their credits earned in the Medical Billing program and have an opportunity to continue their education in the Medical Coding Advanced Certificate program.

For more information on the Medical Billing program at Malcolm X College, visit the program website (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Medical-Billing.aspx>).

Program Requirements

Code	Title	Hours
Required Program Core		
BIOLOGY 116	Introduction to Anatomy And Physiology	4

CIS 120	Introduction to Computer Applications	3
HIT 101	Foundations of HIT	3
HIT 102	Medical Billing	4
HIT 110	Medical Terms for HIT Professionals	3
Total Hours		17

Pathway

This is an **example course sequence** for students interested in earning a degree in Health Information Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Medical Billing.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
CIS 120	Introduction to Computer Applications	3
HIT 101	Foundations of HIT	3
HIT 102	Medical Billing	4
HIT 110	Medical Terms for HIT Professionals	3
Hours		17
Total Hours		17

Choose your courses with your College Advisor.

Medical Coding, Advanced Certificate



College(s): MX

Program Code: 0394

The Advanced Certificate in Medical Coding is intended to provide the student with the necessary education and hands-on skills required for entry-level positions as medical coders for a variety of healthcare settings. The students learn ICD-10-CM/PCS and CPT/HCPCS Level II guidelines and apply them while coding various coding scenarios including inpatient records, outpatient visits, operative reports, and other healthcare records. Students utilize 3M encoder software in both basic and advanced coding courses in order to master their coding skills and smoothly transition to their entry-level healthcare careers. In addition, the students participate in the planned and supervised clinical affiliations in medical facilities. Our stackable degree path allows students to apply all credits earned in the Medical Billing Basic Certificate program to the Medical Coding Advanced Certificate program. Upon the completion of the Medical Coding Advanced Certificate, students can then pursue an Associate in Applied Science degree in Health Information Technology.

Note: In order to sit for the Medical Coding Certification exam, students must provide proof of high school completion or HSE.

For more information on the Medical Coding program at Malcolm X College, visit the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Medical-Coding.aspx>).

Program Requirements

Code	Title	Hours
Required Program Core		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
CIS 120	Introduction to Computer Applications	3
HIT 101	Foundations of HIT	3
HIT 102	Medical Billing	4
HIT 103	Basic ICD-10-CM/PCS Coding	3

HIT 104	Basic CPT Coding	3
HIT 105	Pharmacology for HIT Professionals	2
HIT 108	Advanced ICD-10-CM/PCS Coding	3
HIT 109	Advanced CPT Coding	3
HIT 110	Medical Terms for HIT Professionals	3
HIT 201	Fundamentals of Medical Science	3
HIT 203	Reimbursement Methodologies	3
Required Work-Based Learning Courses		
HIT 221	Professional Practice I	3
Total Hours		40

Pathway

This is an **example course sequence** for students interested in earning a degree in Health Information Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Medical Billing and an Advanced Certificate (AC) in Medical Coding.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	4
CIS 120	Introduction to Computer Applications ¹	3
HIT 101	Foundations of HIT ¹	3
HIT 102	Medical Billing ¹	4
HIT 110	Medical Terms for HIT Professionals ¹	3
Hours		17
Semester 2		
HIT 103	Basic ICD-10-CM/PCS Coding	3

HIT 104	Basic CPT Coding	3
HIT 105	Pharmacology for HIT Professionals	2
HIT 201	Fundamentals of Medical Science	3
Hours		11
Semester 3		
HIT 108	Advanced ICD-10-CM/PCS Coding	3
HIT 109	Advanced CPT Coding	3
HIT 203	Reimbursement Methodologies	3
HIT 221	Professional Practice I	3
Hours		12
Total Hours		40

1

Program prerequisites. Students earn the Medical Billing Basic Certificate (BC) after Semester 1 prior to applying for admission to the Medical Coding Advanced Certificate (AC).

Choose your courses with your College Advisor.

Program Admission Requirements

- Completion of the Malcolm X College Medical Billing [BC] (p. 245).
- Currently enrolled in Malcolm X College Medical Billing program are eligible to apply.
- Submit official college transcripts from all colleges attended outside of City Colleges of Chicago to the Malcolm X College Office of Registrar Services.
- On-campus, in-person interview; this will occur in late October
- Submit one Letter of Recommendation at the interview
- Once accepted to the program and prior to registration; students must complete the following:
 - Background check
 - Drug screen
 - Provide proof of health insurance
 - Provide current immunization records
- Students need to have transportation to and from their clinical sites

Mortuary Science, Associate in Applied Science



College(s): MX

Program Code: 0257

The Associate in Applied Science degree program in Mortuary Science prepares students enrolled in the program with work-based experiences in how to embalm and restore human remains, arrange and conduct religious and humanistic funerals, memorial services, manage funeral home operations, sell funeral merchandise, assist grieving families, and assist members of the medical profession in areas related to human remains. Funeral home establishments may employ students prior to the state of Illinois required internship. The program is in compliance with the standards, guidelines, and curriculum of the American Board of Funeral Service Education (ABFSE), the Conference of Funeral Service Examining Boards (ICFSE), the City Colleges of Chicago (CCC), and the Illinois Department of Financial and Professional Regulations (IDFPR).

National Board Examination pass rates, graduation rates, and employment rates for this and other ABFSE-accredited programs are available at www.abfse.org (<http://www.abfse.org>) in the Directory of Accredited Programs.

The Mortuary Science program at Malcolm X College is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097 55 (816) 233-3747. Web: www.abfse.org (<http://www.abfse.org>)

For additional accreditation specific information related to the aims and objectives of the program, please see the following link: www.ccc.edu/colleges/malcolm-x/departments/Pages/Mortuary-Science.aspx (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Mortuary-Science.aspx>)

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
BIOLOGY 121	Biology I	5
SPEECH 101	Fundamentals of Speech Communication	3
Select one of the following:		3
HLH SCI 102	Professional Medical & Health Care Practices	
HEAPRO 102	Health Career Studies	
BIOLOGY 120	Terminology For Medical Careers	
Total Hours		18

Code	Title	Hours
Required Program Core		
BIOLOGY 130	Human Cadaver Anatomy I	1
BIOLOGY 131	Human Cadaver Anatomy II	1
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
MOR SCI 102	Microbiology For Embalmers	3
MOR SCI 103	Chemistry For Embalmers	3
MOR SCI 104	Pathology For Embalmers	3
MOR SCI 108	Accounting In Funeral Service	3
MOR SCI 109	Sociology For Funeral Service	3
MOR SCI 111	History of Funeral Service	3
MOR SCI 203	Funeral Directing	3
MOR SCI 204	Mortuary And Business Law	3
MOR SCI 207	Restorative Art	3
MOR SCI 209	Funeral Management & Merchandise	3
MOR SCI 210	Advance Mortuary Science Practice/Ethics	2
MOR SCI 211	Psychology Of Funeral Service	3
MOR SCI 213	Embalming Theory I	3
MOR SCI 214	Embalming Laboratory	3
MOR SCI 215	Restorative Art Laboratory	2
MOR SCI 216	Embalming Theory II	3
ENTRE 201	Introduction to Entrepreneurship	3
CIS 120	Introduction to Computer Applications	3
Total Hours		62

¹
 At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in earning a degree in Mortuary Science. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Mortuary Science.

The Associate in Applied Science degree program in Mortuary Science prepares students enrolled in the program with work-based experiences

in how to embalm and restore human remains, arrange and conduct religious and humanistic funerals, memorial services, manage funeral home operations, sell funeral merchandise, assist grieving families, and assist members of the medical profession in areas related to human remains. Funeral home establishments may employ students prior to the state of Illinois required internship. The program is in compliance with the standards, guidelines, and curriculum of the American Board of Funeral Service Education (ABFSE), the Conference of Funeral Service Examining Boards (ICFSE), the City Colleges of Chicago (CCC), and the Illinois Department of Financial and Professional Regulations (IDFPR).

For additional accreditation-specific information related to the aims and objectives of the Mortuary Science program, please see the following link: <https://www.ccc.edu/colleges/malcolm-x/programs/Pages/Mortuary-Science--Mission.aspx>.

Prospective students must apply for admission into the Mortuary Science program.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Upon acceptance into the Mortuary Science program, students must follow the prescribed schedule of Mortuary Science courses.

Course	Title	Hours
Semester 1		
Prerequisites and General Education		
ENGLISH 101	Composition ¹	3
BIOLOGY 121	Biology I ¹	5
MATH 118	General Education Math ²	4
HEAPRO 102 or BIOLOGY 120	Health Career Studies ¹ or Terminology For Medical Careers	3
Hours		15
Semester 2		
Prerequisites and General Education		
ENTRE 201	Introduction to Entrepreneurship	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
CIS 120	Introduction to Computer Applications	3
BIOLOGY 226	Human Structure and Function I	4
Hours		13
Semester 3		
Summer		
BIOLOGY 227	Human Structure and Function II	4
Hours		4
Semester 4		
MOR SCI 102	Microbiology For Embalmers	3
MOR SCI 103	Chemistry For Embalmers	3
MOR SCI 104	Pathology For Embalmers	3
MOR SCI 111	History of Funeral Service	3
Hours		12
Semester 5		
MOR SCI 108	Accounting In Funeral Service	3
MOR SCI 109	Sociology For Funeral Service	3
MOR SCI 207	Restorative Art	3
MOR SCI 213	Embalming Theory I	3
Hours		12
Semester 6		
MOR SCI 203	Funeral Directing	3
MOR SCI 204	Mortuary And Business Law	3

MOR SCI 215	Restorative Art Laboratory	2
MOR SCI 216	Embalming Theory II	3
BIOLOGY 130 & BIOLOGY 131	Human Cadaver Anatomy I and Human Cadaver Anatomy II	2
Hours		13

Semester 7

MOR SCI 210	Advance Mortuary Science Practice/Ethics	2
MOR SCI 211	Psychology Of Funeral Service	3
MOR SCI 209	Funeral Management & Merchandise	3
MOR SCI 214	Embalming Laboratory	3
Hours		11
Total Hours		80

1

Program Prerequisite

2

General Education Requirement

Choose your courses with your College Advisor.

Program Admission Requirements

- Be at least 18 years of age.
- Official high school transcripts or General Education Certificate (GED) showing date of graduation or completion date (as applicable) for first-time college enrollment.
- Completion of 18 hours for Fall/August day enrollment **or** completion of 34 semester credit hours Spring/May evening enrollment.

- Fall/August day enrollment:

Code	Title	Hours
BIOLOGY 120	Terminology For Medical Careers	3
or HEAPRO 102 Health Career Studies		
BIOLOGY 121	Biology I	5
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math	4
Total Hours		18

- Spring/May evening enrollment:

Code	Title	Hours
BIOLOGY 120	Terminology For Medical Careers	3
or HEAPRO 102 Health Career Studies		
BIOLOGY 121	Biology I	5
ENGLISH 101	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math	4
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
BIOLOGY 130	Human Cadaver Anatomy I	1
BIOLOGY 131	Human Cadaver Anatomy II	1
ENTRE 201	Introduction to Entrepreneurship	3
CIS 120	Introduction to Computer Applications	3
Total Hours		34

- Grade C or better in all prerequisite courses.
- Submission of completed application to the Mortuary Science Program.

- Submission of an essay.
- Interview with Program Director and Advisory Council Members
- Electronic notification of acceptance by program: May
- Transfer status is not a guaranteed acceptance. Malcolm X College admissions performs transcript evaluations at the request of the student. Transcript evaluation forms are available at the Office of Admissions and Student Records on campus.
- Official college transcripts from all institutions attended.
- Grade Point Average must be at least "C" (GPA 2.5) for Fall day enrollment
- BIOLOGY 226 Human Structure and Function I and BIOLOGY 227 Human Structure and Function II general education courses for transferability must have been completed within five years of admission. If more than five years, these courses must be audited or successfully tested out through program assessment. All courses strictly in Mortuary Science must be taken in the program. Transfer students must submit a full application packet and meet with Program Director.
- Completion of all prerequisite electives and general education courses specified in day or evening curriculum.
- Submission of three letters of recommendation.
- Application deadline: April 7 of every year
- Electronic applicant response to acceptance offer: May
- Vaccinations are required
- Conviction of a felony: contact the IDFPR (217) 782-8556 to inquire if license would be awarded by state to practice in this profession.

Acceptance Policy

- Candidates offered admission may not defer admission to a subsequent year. Applicants who decline admission must reapply.
- The Mortuary Science Program at Malcolm X College is accredited by:

The American Board of Funeral Service Education (ABFSE)
 992 Mantua Pike, Suite 108
 Woodbury Heights, NJ 08097
 (816) 233-3747
 Email: exdir@abfse.org
www.abfse.org (<http://www.abfse.org>)
 Executive Director: Robert Smith.

- The Mortuary Science Program information and application is available on the web: www.ccc.edu/colleges/malcolm-x/programs/Pages/Mortuary-Science---Admissions.aspx (<http://www.ccc.edu/colleges/malcolm-x/programs/Pages/Mortuary-Science---Admissions.aspx>).
- The annual passage rate of first-time takers on the National Board Examination for the most recent three-year period for this institution and all ABFSE accredited funeral service education programs is posted on the American Board of Funeral Service Education web site www.abfse.org (<http://www.abfse.org>)

To graduate with an Associate in Applied Science degree in Mortuary Science and be eligible to apply to the IDFPR, the student must:

- Complete the required prerequisite courses.
- Register and complete the Arts and Sciences National Board Exam (NBE) within 45 days of the City Colleges of Chicago graduation date.
- Complete the 62 credit hours of the Mortuary Science curriculum.

- Earn at least a 2.5 grade point average, a “C” or higher in Mortuary Science courses.
- Pass the Comprehensive Exit Examinations in order to be eligible to register for NBE
- Meet all graduation requirements of the City Colleges of Chicago and Mortuary Science program.

Application Deadline is April 7 of every year. New students are accepted into the Mortuary Science program during the spring of each year, with the program starting during the spring term in May and during the fall term in August. Mortuary Science core courses are offered

- Monday through Thursday during the fall enrollment in the day from 8:00–10:50 am;
- during the spring enrollment in the evening from 6:00–8:50 pm; and
- during the summer enrollment in the evening from 4:00–9:50 pm.

Upon acceptance into the Mortuary Science program, students must provide documentation of current health insurance, immunizations and recent medical examination. The student must exemplify professionalism, good communication and language skills and an overall comprehension of public health and sanitation. Some of the required courses have their own prerequisite course. Please see each course descriptions in the college catalog.

Program Learning Outcomes

The mission of an ABFSE-accredited program must be to educate students in every phase of funeral service so that program graduates are prepared for entry-level employment in funeral service. In support of this mission, a program must adopt at least the following Learning Outcomes:

Upon completion of an accredited program, students will be able to:

1. Explain the importance of funeral service professionals in developing relationships with the families and communities they serve.
2. Identify standards of ethical conduct in funeral service practice.
3. Interpret how federal, state, and local laws apply to funeral service in order to ensure compliance.
4. Apply principles of public health and safety in the handling and preparation of human remains.
5. Demonstrate technical skills in embalming and restorative art that are necessary for the preparation and handling of human remains.
6. Demonstrate skills required for conducting arrangement conferences, visitations, services, and ceremonies.
7. Describe the requirements and procedures for burial, cremation, and other accepted forms of final disposition of human remains.
8. Describe methods to address the grief-related needs of the bereaved.
9. Explain management skills associated with operating a funeral establishment.
10. Demonstrate verbal and written communication skills and research skills needed for funeral service practice.

Music Business, Basic Certificate



College(s): HW

Program Code: 0093

The Basic Certificate program in Music Business prepares students for the study of the techniques and standards needed for a career as a manager, publisher, professional musician, or agent. Completion of the Music Business program can lead to employment with such businesses as recording companies, management firms, publishing companies, music festivals, or music production companies. Practical experience within the music industry is included. The field is highly competitive, but employment opportunities are expanding rapidly.

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 111	Introduction To Business	3
BUSINES 231	Marketing	3
MUSIC 102	Music Theory I	3
MUSIC 105	Group Piano I	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 120	Introduction to Music Business	3
MUSIC 221	Music Literature & History	3
MUSIC 225	Individual Project	2
Total Hours		21

Pathway

This is an **example course sequence** for students interested in pursuing Music Business. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC). The BC program in Music Business prepares students for the study of the techniques and standards needed for a career as a manager, publisher, professional musician, or agent. Completion of the Music Business program can lead to employment with such businesses as recording companies, management firms, publishing

companies, music festivals, or music production companies. Practical experience within the music industry is included. The field is highly competitive, but employment opportunities are expanding rapidly.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 111	Introduction To Business	3
MUSIC 101	Fundamentals of Music Theory	3
MUSIC 105	Group Piano I	2
MUSIC 120	Introduction to Music Business	3
		Hours
		11
Semester 2		
BUSINES 231	Marketing	3
MUSIC 102	Music Theory I	3
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 221	Music Literature & History	3
MUSIC 225	Individual Project	2
		Hours
		13
Total Hours		24

Music Education, Associate in Fine Arts



College(s): HW

Program Code: 0208

Music educators are passionate about developing their students' musical talents and guiding them in their pursuit of music careers. They also enjoy helping all students have fun, develop discipline, and enrich their lives by learning to play music. Learn how to teach music and music appreciation to people of various ages and abilities. Students may take courses in curriculum design, music theory, music history, classroom management, and technology for music teachers. People with degrees in Music Education can choose to become music teachers, recreational therapists, musicians, sound engineers, and more.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math (or higher Mathematics)	3
MUSIC 221	Music Literature & History	3
Social and Behavioral Sciences course ¹		3
Fine Arts & Humanities course ¹		3
Physical Sciences or Life Sciences course ^{1,2}		7
Required Program Core		
MUSIC 102	Music Theory I	3
MUSIC 103	Music Theory II	3
MUSIC 105	Group Piano I	2
MUSIC 106	Group Piano II	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 181	Applied Music-Freshman Level I	2

MUSIC 182	Applied Music-Freshman Level II	2
MUSIC 201	Music Theory III	3
MUSIC 202	Music Theory IV	3
MUSIC 211	Aural and Keyboard Skills III	2
MUSIC 212	Aural and Keyboard Skill IV	2
MUSIC 281	Applied Music-Sophomore Level I	2
MUSIC 282	Appl Music-Soph Lvl II	2

Program Electives

Select a minimum of 2 credit hours of the following:		2
MUSIC 109	Jazz/Pop Ensemble	
MUSIC 110	Jazz/Pop Ensemble: Blues Emphasis	
MUSIC 131	Chorus	
MUSIC 135	Instrumental Ensembles	
MUSIC 136	Vocal Ensembles	

Total Hours 62

¹

One of the courses must be an HD course.

²

Minimum one course each in Physical Sciences & Life Sciences; one course must be a lab.

Pathway

Follow the Music Education pathway and learn how to teach music and music appreciation to students of various ages and abilities. People with degrees in music education can choose to become music teachers, recreational therapists, musicians, sound engineers, and more.

This is an **example course sequence** for students interested in pursuing Music Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Fine Arts (AFA) degree. One course will satisfy

the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MUSIC 102	Music Theory I (placement test required)	3
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 105	Group Piano I	2
MUSIC 181	Applied Music-Freshman Level I	2
MUSIC 183	World Music (HD) ¹	3
	Hours	15
Semester 2		
SPEECH 101	Fundamentals of Speech Communication ¹	3
MUSIC 103	Music Theory II	3
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 106	Group Piano II	2
Life Sciences with Lab ¹		4
MUSIC 182	Applied Music-Freshman Level II	2
Program Elective (p. 253) ²		1-2
	Hours	17-18
Semester 3		
ENGLISH 102	Composition ¹	3
MUSIC 201	Music Theory III	3
MUSIC 211	Aural and Keyboard Skills III	2
MATH 118	General Education Math (or higher Mathematics) ^{1,3}	4
MUSIC 281	Applied Music-Sophomore Level I	2
Program Elective (p. 253) ²		1-2
	Hours	15-16
Semester 4		
PSYCH 201	General Psychology ¹	3
MUSIC 202	Music Theory IV	3
MUSIC 212	Aural and Keyboard Skill IV	2
MUSIC 282	Appl Music-Soph Lvl II	2
MUSIC 221	Music Literature & History ¹	3
Physical Sciences course with no lab ¹		3
	Hours	16
	Total Hours	63-65

1

General Education Requirement

2

Program Elective (p. 253)

3

Except for MATH 299 Special Topics Mathematics

Program Elective

Code	Title	Hours
MUSIC 109	Jazz/Pop Ensemble	2
MUSIC 110	Jazz/Pop Ensemble: Blues Emphasis	2
MUSIC 131	Chorus	2
MUSIC 135	Instrumental Ensembles	1
MUSIC 136	Vocal Ensembles	1

Music Performance, Associate in Fine Arts



College(s): HW, WR

Program Code: 0205

The Associate in Fine Arts Degree with a concentration in Music Performance provides the necessary foundation for more advanced study in music performance, music theory, music history, or music composition at four-year colleges, universities, and music conservatories. Performance areas include all musical instruments and voice.

Employment opportunities are varied and are usually based on the student's personal interest and area of specialization, including all professions based in the musical arts (performance, composition, research and analysis, music management, library science, music publishing, music therapy, among others).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
	One Mathematics course	4
	Any two IAI approved Humanities courses	6
	One Social and Behavioral Sciences course	3
	Two Physical Sciences & Life Sciences courses ¹	7
Required Program Core		
MUSIC 102	Music Theory I	3
MUSIC 103	Music Theory II	3
MUSIC 105	Group Piano I	2
MUSIC 106	Group Piano II	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 181	Applied Music-Freshman Level I	2

MUSIC 182	Applied Music-Freshman Level II	2
MUSIC 201	Music Theory III	3
MUSIC 202	Music Theory IV	3
MUSIC 211	Aural and Keyboard Skills III	2
MUSIC 212	Aural and Keyboard Skill IV	2
MUSIC 221	Music Literature & History	3
MUSIC 281	Applied Music-Sophomore Level I	2
MUSIC 282	Appl Music-Soph Lvl II	2

Program Electives

Select a minimum of four courses of the following for a minimum of four credit hours: 4

MUSIC 109	Jazz/Pop Ensemble ²
MUSIC 110	Jazz/Pop Ensemble: Blues Emphasis ²
MUSIC 113	String Class
MUSIC 119	Percussion Class
MUSIC 131	Chorus ²
MUSIC 133	Concert Band ²
MUSIC 134	Orchestra ²
MUSIC 135	Instrumental Ensembles ²
MUSIC 136	Vocal Ensembles ²

Total Hours 68

¹ Minimum one course each in Physical & Life Sciences; one course must be a lab.

² Allowed repeatable courses may be repeated for credit to satisfy elective requirements.

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in pursuing Music Performance. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Fine Arts (AFA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MUSIC 102	Music Theory I (placement test required)	3
MUSIC 105	Group Piano I	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 181	Applied Music-Freshman Level I	2
Any Music Ensemble (p. 255) ²		1-2
Physical Sciences or Life Sciences with no lab ¹		3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Hours		19-20
Semester 2		
Mathematics course ¹		4
MUSIC 103	Music Theory II	3
MUSIC 106	Group Piano II	2
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 182	Applied Music-Freshman Level II	2
MUSIC 183	World Music (HD) ¹	3
Any Music Ensemble (p. 255) ²		1-2
Hours		17-18
Semester 3		
ENGLISH 102	Composition ¹	3
MUSIC 201	Music Theory III	3
MUSIC 211	Aural and Keyboard Skills III	2
MUSIC 221	Music Literature & History	3
MUSIC 281	Applied Music-Sophomore Level I	2
Any Music Ensemble (p. 255) ²		1-2
Humanities course ¹		3
Hours		17-18
Semester 4		
MUSIC 202	Music Theory IV	3
MUSIC 212	Aural and Keyboard Skill IV	2
MUSIC 282	Appl Music-Soph Lvl II	2
Any Music Ensemble (p. 255) ²		1-2
Physical Sciences or Life Sciences course with lab ¹		4
Social and Behavioral Sciences course ¹		3
Hours		15-16
Total Hours		68-72

Program Electives - Music Ensembles

Code	Title	Hours
MUSIC 109	Jazz/Pop Ensemble	2
MUSIC 110	Jazz/Pop Ensemble: Blues Emphasis	2
MUSIC 113	String Class	2
MUSIC 119	Percussion Class	2
MUSIC 131	Chorus	1-2
MUSIC 133	Concert Band	1
MUSIC 134	Orchestra	1
MUSIC 135	Instrumental Ensembles	1
MUSIC 136	Vocal Ensembles	1

Choose your courses with your College Advisor.

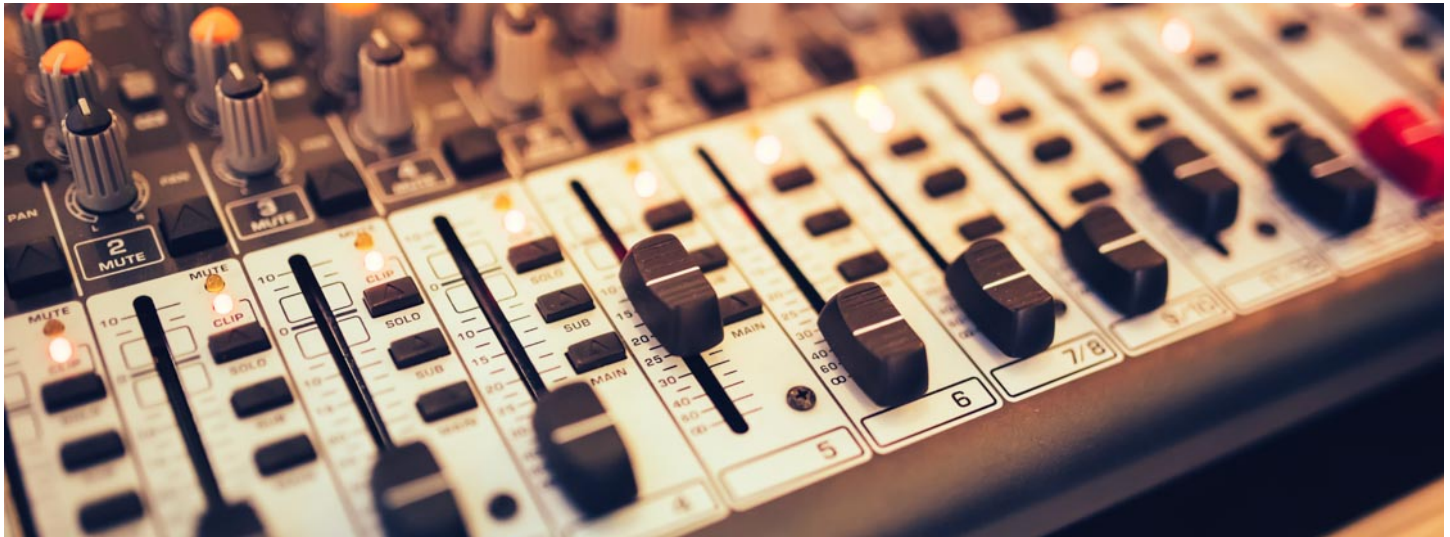
1

General Education Requirement

2

Pathway Elective (p. 255)

Music Technology, Basic Certificate



College(s): HW

Program Code: 0094

The Basic Certificate program in Music Technology is the study of techniques and standards needed for careers as a recording engineer, producer, professional musician, or composer/ arranger. Completion of the certificate program can lead to employment with such businesses as advertising agencies, recording studios, recording companies, video game companies, publishing companies, radio stations, or as a free-lance artist. The field is highly competitive, but employment opportunities are expanding rapidly.

producer, professional musician, or composer/ arranger. Completion of the certificate program can lead to employment with such businesses as advertising agencies, recording studios, recording companies, video game companies, publishing companies, radio stations, or as a free-lance artist. The field is highly competitive, but employment opportunities are expanding rapidly.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Program Requirements

Code	Title	Hours
Required Program Core		
DMD 115	Digital Audio	3
MUSIC 102	Music Theory I	3
MUSIC 103	Music Theory II	3
MUSIC 105	Group Piano I	2
MUSIC 106	Group Piano II	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 204	Commercial Music Workshop I	2
MUSIC 205	Commercial Music Workshop II	2
MUSIC 221	Music Literature & History	3
MUSIC 225	Individual Project	2
Total Hours		26

Course	Title	Hours
Semester 1		
DMD 115	Digital Audio	3
MUSIC 101	Fundamentals of Music Theory ¹	3
MUSIC 105	Group Piano I	2
MUSIC 204	Commercial Music Workshop I	2
Hours		10
Semester 2		
MUSIC 102	Music Theory I	3
MUSIC 106	Group Piano II	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 205	Commercial Music Workshop II	2
MUSIC 221	Music Literature & History	3
Hours		12
Semester 3		
MUSIC 103	Music Theory II	3
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 225	Individual Project	2
Hours		7
Total Hours		29

Pathway

This is an **example course sequence** for students interested in pursuing Music Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC). The BC program in Music Technology is the study of techniques and standards needed for careers as a recording engineer,

¹
 Program Prerequisite

Choose your courses with your College Advisor.

Networking Systems and Technology, Advanced Certificate



College(s): DA, KK, OH, TR, WR

Program Code: 0142

Networking Systems and Technology, Advanced Certificate

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 111	Computer Operations	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 221	Internetworking III	3
NET TEC 222	Internetworking IV	3
	or NET TEC 245 Cloud Computing and Services	
NET TEC 240	Operating Systems/Server I	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in earning a degree in Networking Systems and Technology. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Networking Systems and Technology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 111	Computer Operations	3
NET TEC 121	Internetworking I	3
Hours		12
Semester 2		
NET TEC 122	Internetworking II	3
CIS 255	Operating Systems II	3
Hours		6
Semester 3		
COMPSFI 102	Information Security Essentials	3
NET TEC 221	Internetworking III	3
NET TEC 240	Operating Systems/Server I	3
Hours		9
Semester 4		
NET TEC 222	Internetworking IV	3
or NET TEC 245	or Cloud Computing and Services	
Hours		3
Total Hours		30

Choose your courses with your College Advisor.

Networking Systems and Technology, Associate in Applied Science



College(s): DA, KK, OH, TR, WR

Program Code: 0141

This program is for students interested in administering and maintaining network equipment as well as software and services common in modern network infrastructures. Curriculum covers both hardware and software components. It also offers students relevant skills required in a variety of industry certifications including A+, Network+, CCENT, CCNA, and CCNA Security.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
Mathematics (MATH 125 recommended)		4
Fine Arts or Humanities course		3
Social and Behavioral Sciences course		3
Physical Sciences or Life Sciences course		3
Required Program Core		
BUSINES 111	Introduction To Business	3
CIS 101	Computer Science 101	3
CIS 111	Computer Operations	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 221	Internetworking III	3
NET TEC 222	Internetworking IV	3
	or NET TEC 245Cloud Computing and Services	
NET TEC 240	Operating Systems/Server I	3

Required Work-Based Learning Courses

CIS 260	Computer Information Systems Field Project	3
or CIS 265	Computer Information Systems Internship	

Program Electives

Students must complete a minimum of 9 credit hours in the subjects	9
Computer Information Systems (0032), Networking Technologies (0165), or Cybersecurity (0162).	

Total Hours 61

1

At least one course must be an HD course.

Pathway

This is an **example course sequence** for students interested in earning a degree in Networking Systems and Technology. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), an Advanced Certificate (AC), and an Associate in Applied Science (AAS) Degree in Networking Systems and Technology. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

The Networking Systems and Technology AAS program is for students interested in administering and maintaining network equipment such as routers, switches, and servers, as well as, maintaining software and services that are common in modern network infrastructures. The curriculum covers both hardware and software components which help prepare students for jobs in the Information Technology (IT) market. It also offers students relevant knowledge and skills required in a variety of industry certifications including: A+, Network+, CCENT, CCNA and CCNA Security.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 111	Computer Operations	3
NET TEC 121	Internetworking I	3
	Hours	15
Semester 2		
BUSINES 111	Introduction To Business	3
CIS 255	Operating Systems II	3
MATH 125	Introductory Statistics (or other Mathematics)	4
NET TEC 122	Internetworking II	3
Fine Arts & Humanities course (HD) ¹		3
	Hours	16
Semester 3		
COMPSFI 102	Information Security Essentials	3
NET TEC 221	Internetworking III	3
NET TEC 240	Operating Systems/Server I	3
Physical Sciences or Life Sciences course ¹		3
Program Elective ²		3
	Hours	15
Semester 4		
NET TEC 222 or NET TEC 245	Internetworking IV or Cloud Computing and Services	3
CIS 260 or CIS 265	Computer Information Systems Field Project (Capstone or Internship) or Computer Information Systems Internship	3
Social and Behavioral Sciences course ¹		3
Program Elective ²		3
Program Elective ²		3
	Hours	15
	Total Hours	61

1

General Education Requirement

2

Students must complete a minimum of 9 credit hours in the subjects Computer Information Systems (0032) (p. 476), Networking Technologies (0165) (p. 568), or Cybersecurity (0162) (p. 493).

Choose your courses with your College Advisor.

Networking Systems and Technology, Basic Certificate



College(s): DA, KK, OH, TR, WR

Program Code: 0143

Networking Systems and Technology, Basic Certificate

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 111	Computer Operations	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
Total Hours		18

Course	Title	Hours
Semester 1		
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 111	Computer Operations	3
NET TEC 121	Internetworking I	3
Hours		12
Semester 2		
CIS 255	Operating Systems II	3
NET TEC 122	Internetworking II	3
Hours		6
Total Hours		18

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in earning a degree in Networking Systems and Technology. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Networking Systems and Technology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Nursing Home Administration, Basic Certificate

College(s): WR*

Program Code: 0341

**Beginning Spring 2021, this program is no longer accepting new students.*

Program Requirements

Code	Title	Hours
Required Program Core		
BUSINES 271	Human Resources Management	3
SOC SER 102	Introduction To Gerontology	3
SOC SER 252	Nursing Home Administration	3
SOC SER 253	Accounting For Long Term Care	3
Total Hours		12

Pathway

This is an **example course sequence** for students interested in nursing home administration. If pathway is followed as outlined, you will earn a Basic Certificate (BC) in Nursing Home Administration. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BUSINES 271	Human Resources Management	3
SOC SER 102	Introduction To Gerontology	3
SOC SER 252	Nursing Home Administration	3
SOC SER 253	Accounting For Long Term Care	3
Hours		12
Total Hours		12

Choose your courses with your College Advisor.

Nursing, Associate in Applied Science



College(s): MX

Program Code: 0239

The Associate in Applied Science degree program in Nursing prepares students through the study of nursing theory and patient care techniques to take the licensure examination for Registered Nurses (RN). Both classroom instruction and clinical experiences in Chicago, surrounding suburban area hospitals, and primary care facilities are provided. The curriculum is designed to lead the student to employment as a registered professional nurse in hospitals, clinics, nursing homes, physicians' offices, schools, public health, government, and military, or industry.

Proof of a Certified Nursing Assistant (CNA) certificate is required at the time of application to the Nursing program.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Nursing AAS at Malcolm X College, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Nursing-Department.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
BIOLOGY 121	Biology I	5
CHEM 121	Basic Chemistry I	4
MATH 118	General Education Math (or higher Mathematics)	4
Required Program Core		
MCROBIO 233	General Microbiology	4
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4

NURSING 101	Fundamentals of Nursing	7
NURSING 102	Introduction to Medical-Surgical	7
NURSING 203	Nursing Leadership ¹	3
NURSING 210	Intermediate Medical-Surgical Nursing	6
NURSING 211	Maternal-Newborn/Mental Health	6
NURSING 212	Pediatric/Gerontologic Nursing	6
NURSING 213	Advanced Medical Surgical	6
Total Hours		69

1

This course fulfills the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students who are seeking admission into the Nursing program. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Nursing.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
BIOLOGY 121	Biology I ¹	5
CHEM 121	Basic Chemistry I ¹	4
MATH 118	General Education Math (or higher Mathematics) ¹	4
Hours		16
Semester 2		
BIOLOGY 226	Human Structure and Function I ²	4

MCROBIO 233	General Microbiology ²	4
	Hours	8
Semester 3		
NURSING 101	Fundamentals of Nursing	7
BIOLOGY 227	Human Structure and Function II ²	4
	Hours	11
Semester 4		
NURSING 102	Introduction to Medical-Surgical	7
	Hours	7
Semester 5		
NURSING 210	Intermediate Medical-Surgical Nursing	6
NURSING 211	Maternal-Newborn/Mental Health	6
	Hours	12
Semester 6		
NURSING 212	Pediatric/Gerontologic Nursing	6
NURSING 213	Advanced Medical Surgical	6
NURSING 203	Nursing Leadership	3
	Hours	15
	Total Hours	69

1

Program Prerequisite

2

Program Corequisite

Choose your courses with your College Advisor.

Program Admission Requirements

Acceptance into the Nursing Program is competitive and requires an established cumulative GPA at CCC. Nursing prerequisites can be completed at any one of the seven City Colleges of Chicago. Upon admission to the CCC Nursing Program, students will complete the program at Malcolm X College. Any questions regarding application and admissions process please email the CCC Nursing Programs at CCCNursingAdmissions@ccc.edu. In addition, informational sessions are available at Malcolm X College Nursing Programs.

To be eligible to apply to the CCC Nursing Program, a student must have successfully completed:

1. All four prerequisite courses,

Code	Title	Hours
Prerequisite Courses *		
BIOLOGY 121	Biology I (completed within the past 10 years)	5
CHEM 121	Basic Chemistry I (completed within the past 10 years)	4
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher)	4
Total Hours		16

*

All prerequisite courses (4) must be completed with a grade of "C" or higher prior to the posted online application deadline.

2. ATI Pre-admission Exam (must be taken at a CCC campus during the application process),
3. Background check

4. Cumulative GPA at CCC of 2.75 prior to the posted application deadline date. All applications will be reviewed for selection by the Nursing Admission Committee.
5. Proof of a Certified Nursing Assistant (CNA) certificate is required at the time of application to the Nursing program.
6. Official high school transcript or GED

ATI TEAS Exam:

- Minimum Cumulative Score: 65%
- Minimum Reading Score: 73%

Please Note: Submitting the application and possessing the requirements for the CCC Nursing Program does not guarantee admission.

Before submitting the online application, the online application will request a copy of the applicant's ATI score, date of Certified Background check, prerequisite grades, and CCC cumulative GPA. The applicant will then certify via application submission that the submitted information is **not** false. Falsification of information will result in disqualification for application review. The Nursing Admission Committee will then refer to the respective databases to confirm the submitted information.

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo fingerprinting prior to licensing with the state of Illinois. Students should consult with a College Advisor if any of these requirements are a concern.

For more information on admissions requirements and the application process, visit the Nursing Department webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Nursing-Department.aspx>).

Occupational Therapy Assistant, Associate in Applied Science



College(s): WR

Program Code: 0259

The Associate in Applied Science degree program in Occupational Therapy Assistant (OTA) is the study of occupational therapy as a skilled healthcare service that uses occupation to promote meaningful living. Occupational therapy assistants, under the guidance of occupational therapists, adapt activities, tasks, and the environment in order to enable people of all ages and backgrounds to fulfill their chosen occupations and life roles. Career options can include employment in hospitals, clinics, schools, specialized community care settings, and wellness programs. The program's mission is to prepare competent and effective occupational therapy practitioners who value occupation as both a means and as an end to quality living for self and others through a sound educational experience that includes preparation in:

- The occupational therapy process
- The impact of culture
- Use of self as an agent of change
- Ethical professional practice
- Teaching and learning processes
- Collaborating as a healthcare professional
- Working in a variety of practice environments
- Oral and written communication skills

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education. Graduates of the program are eligible to sit for the National Certification Exam for Occupational Therapy Assistants administered by the National Board for Certification in Occupational Therapy, Inc. (NBCOT). After successful completion of this exam, an individual becomes a Certified Occupational Therapy Assistant. Determination of exam eligibility for applicants who have a felony related charge or conviction requires individualized review by NBCOT, Inc. Most states require licensure in order to practice. Illinois

license issuance is based upon the results of the NBCOT Certification exam.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Occupational Therapy Assistant program at Wright College, visit the program webpage (<https://www.ccc.edu/colleges/wright/departments/Pages/Occupational-Therapy-Assistant-.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
CIS 120	Introduction to Computer Applications	3
PSYCH 201	General Psychology	3
OTA 106	Foundations of Human Occupation	3
PSYCH 207	Child Psychology	3
	or CHLD DV 101 Human Growth & Development I	
Required Program Core		
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
SOC 201	Intro To the Study Of Society	3
OTA 107	Occupations Of Childhood	5
OTA 108	Practice Skills of OT Assistant I	2
OTA 109	Occupations of Adolescence Early Adulthood	5
OTA 110	Practice Skills of OT Assistant II	2
OTA 209	Occupation of Middle Adulthood	5
OTA 210	Practice Skills of OT Assistant III	2
OTA 211	Special Topics for OT I	3
OTA 212	Occupations of Later Adulthood	5

OTA 213	Practice Skills of OT Assistant IV	2
OTA 214	Special Topics for OTA II	3
Required Work-Based Learning Courses		
OTA 215	Fieldwork Level II	6
OTA 216	Fieldwork Level B	6
Program Electives		
Select one of the following:		3
PSYCH 222	Adult Development And Aging	
SOC SER 102	Introduction To Gerontology	
CHLD DV 102	Human Growth & Development II	
Total Hours		75

Pathway

This is an **example course sequence** for students interested in earning a degree in occupational therapy. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science Degree (AAS) in Occupational Therapy Assistant (OTA). One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
OTA 106	Foundations of Human Occupation ¹	3
ENGLISH 101	Composition ¹	3
BIOLOGY 121	Biology I ¹	5
CIS 120	Introduction to Computer Applications ¹	3
PSYCH 201	General Psychology ¹	3
Hours		17
Semester 2		
BIOLOGY 226	Human Structure and Function I ¹	4
SOC 201	Intro To the Study Of Society ¹	3
PSYCH 207	Child Psychology ¹	3-4
or CHLD DV 101	or Human Growth & Development I	
Select one of the following:		3
PSYCH 222	Adult Development And Aging ²	
SOC SER 102	Introduction To Gerontology ²	
CHLD DV 102	Human Growth & Development II (in semester 3) ²	
Hours		13-14
Semester 3		
OTA 107	Occupations Of Childhood	5
OTA 108	Practice Skills of OT Assistant I	2
BIOLOGY 227	Human Structure and Function II ¹	4
Hours		11
Semester 4		
OTA 109	Occupations of Adolescence Early Adulthood	5
OTA 110	Practice Skills of OT Assistant II	2
Hours		7
Semester 5		
OTA 209	Occupation of Middle Adulthood	5
OTA 210	Practice Skills of OT Assistant III	2
OTA 211	Special Topics for OT I	3
Hours		10

Semester 6		
OTA 212	Occupations of Later Adulthood	5
OTA 213	Practice Skills of OT Assistant IV	2
OTA 214	Special Topics for OTA II	3
Hours		10
Semester 7		
All academic coursework must be completed and an exit exam passed in order for students to proceed to the fieldwork component of the program.		
OTA 215	Fieldwork Level II	6
OTA 216	Fieldwork Level B	6
Hours		12
Total Hours		80-81

1
Program Prerequisite

2
Program Elective

Choose your courses with your College Advisor.

Program Admission Requirements

Students can make formal application to the program when all pre-admission coursework is completed, or when pre-admission coursework completion will occur before the beginning of Semester I of the program. A minimum grade of "C" is required in each pre-admission and general education course. If more candidates apply than the program can accept, the best qualified will be admitted.

Code	Title	Hours
Prerequisite courses:		
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
PSYCH 207	Child Psychology	3-4
	or CHLD DV 101 Human Growth & Development I	
CIS 120	Introduction to Computer Applications	3
OTA 106	Foundations of Human Occupation	3

NOTE: If you plan to apply for admission prior to completing BIOLOGY 226 Human Structure and Function I and BIOLOGY 227 Human Structure and Function II, you also must complete BIOLOGY 121 Biology I, in order to meet City College Biology Department course requirements.

For more information on admissions requirements and the application process, visit the program webpage (<https://www.ccc.edu/colleges/wright/departments/Pages/Occupational-Therapy-Assistant-.aspx>).

Overhead Electrical Line Worker, Advanced Certificate



College(s): KK

Program Code: 0766

The Advanced Certificate program in Electrical Line Worker (Overhead) is structured to meet the current need for overhead electricians/electrical line workers in the electrical power industry.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
332TECH 448	Vocational Physical Training I	1
332TECH 449	Professional Development	2
332TECH 452	Basic Electrical Theory	3
332TECH 453	Overhead Techniques & Projects I	4
332TECH 458	Overhead Techniques & Projects II	4
332TECH 459	Construction Safety and Rescue	3
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
332TECH 464	Power Equipment Operation I	2.5
332TECH 470	Power Equipment Operations II	2.5
ENGLISH 197	Communications Skills	3
MATH 107	Math For Technicians I	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in electrical line work. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) in Electrical Line Worker (Overhead). This does not represent a contract, nor does it guarantee course availability.

The AC program in Electrical Line Worker (Overhead) is structured to meet the current need for overhead electricians/electrical line workers in the electrical power industry.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 448	Vocational Physical Training I	1
332TECH 449	Professional Development	2
ENGLISH 197	Communications Skills	3
MATH 107	Math For Technicians I	3
PHASE 2		
332TECH 452	Basic Electrical Theory	3
332TECH 453	Overhead Techniques & Projects I	4
332TECH 462	Vocational Physical Training II	1
332TECH 464	Power Equipment Operation I	2.5
Hours		19.5
Semester 2		
PHASE 3		
332TECH 458	Overhead Techniques & Projects II	4
332TECH 459	Construction Safety and Rescue	3
332TECH 463	Vocational Physical Training III	1
332TECH 470	Power Equipment Operations II	2.5
Hours		10.5
Total Hours		30

Choose your courses with your College Advisor.

Paralegal, Associate in Applied Science



College(s): HW, WR

Program Code: 0304

The Associate in Applied Science degree in Paralegal prepares students with the skills to become highly trained paralegals to meet the needs of corporations, law firms and offices, and other sectors where law-related work is performed. Program completion can lead to employment in any area where law-related work is conducted. Paralegals may not provide legal services directly to the public, except as permitted by law. The program is approved by the American Bar Association at Wright College.

PARALEG 150	Legal Research and Writing I
PARALEG 220	Criminal Law for the Paralegal
PARALEG 224	Wills, Trusts and Probate
PARALEG 226	Internship for the Paralegal
PARALEG 227	Elder Law
PARALEG 228	Environmental Law for the Paralegal
PARALEG 229	Immigration Law
PARALEG 239	Business Organizations & Agency Law
PARALEG 240	Computers in the Law Office
Additional General Education courses (up to 6 hours)	

Total Hours 60

1
At least one course must satisfy the Human Diversity (HD) requirement

2
Students may select up to two additional general education courses (6 hours) to count toward their program elective requirements

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	3
Courses from at least three of the following disciplines ¹		15
Mathematics		
Fine Arts and Humanities		
Social and Behavioral Sciences		
Physical Sciences and Life Sciences		
Required Program Core		
PARALEG 147	Intro to Paralegal Studies	3
PARALEG 148	Civil Litigation	3
PARALEG 149	Family Law	3
PARALEG 219	Real Estate Law for the Paralegal	3
PARALEG 222	Contract Law for the Paralegal	3
PARALEG 223	Tort Law	3
PARALEG 225	Legal Research and Writing	3
PARALEG 238	Legal Ethics for the Paralegal	3
Program Electives ²		12

Pathway

This is an **example course sequence** for students interested in Paralegal. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree. All prescribed courses on this pathway are required for the degree. Courses may not be substituted. Students should meet with a College Advisor for selection of elective courses.

The AAS program at Wright College is approved by the American Bar Association. As a result, students wishing to graduate from the Wright College Paralegal Program will need to take all of their Paralegal (PARALEG) courses at Wright College (with the exception of General Education courses).

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
PARALEG 147	Intro to Paralegal Studies	3
PARALEG 148	Civil Litigation	3
PARALEG 149	Family Law	3
PARALEG 238	Legal Ethics for the Paralegal	3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
PARALEG 219	Real Estate Law for the Paralegal	3
PARALEG 222	Contract Law for the Paralegal	3
PARALEG 223	Tort Law	3
SPEECH 101	Fundamentals of Speech Communication	2-3
Hours		14-15
Semester 3		
PARALEG 225	Legal Research and Writing	3
General Education Course ¹		3
General Education Course ¹		3
Program Elective (p. 268) ²		3
Program Elective (p. 268) ²		3
Hours		15
Semester 4		
General Education Course ¹		3
General Education Course ¹		3
Program Elective (p. 268) ²		3
Program Elective (p. 268) ²		3
Any IAI Approved Human Diversity course ¹		3
Hours		15
Total Hours		59-60

- ¹
 General Education Requirement
- ²
 Program Elective (p. 268)

Program Electives

Code	Title	Hours
PARALEG 150	Legal Research and Writing I	3
PARALEG 220	Criminal Law for the Paralegal	3
PARALEG 224	Wills, Trusts and Probate	3
PARALEG 226	Internship for the Paralegal	3
PARALEG 227	Elder Law	3
PARALEG 228	Environmental Law for the Paralegal	3
PARALEG 229	Immigration Law	3
PARALEG 239	Business Organizations & Agency Law	3
PARALEG 240	Computers in the Law Office	3

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Students with a Prior-Earned Degree or General Education Courses Completed

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication	3
Any IAI Approved Human Diversity Course ¹		3
General Education Course ¹		3
General Education Course ¹		3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
General Education Course ¹		3
General Education Course ¹		3
General Education Course ¹		3
General Education Course ¹		3
Hours		15
Semester 3		
PARALEG 147	Intro to Paralegal Studies	3
PARALEG 148	Civil Litigation	3
PARALEG 149	Family Law	3
PARALEG 223	Tort Law	3
PARALEG 238	Legal Ethics for the Paralegal	3
Hours		15
Semester 4		
PARALEG 219	Real Estate Law for the Paralegal	3
PARALEG 222	Contract Law for the Paralegal	3
PARALEG 225	Legal Research and Writing	3
Program Elective (p. 268) ²		3
Program Elective (p. 268) ²		3
Hours		15
Total Hours		60

- ¹
 General Education Requirement
- ²
 Program Elective (p. 268)

PROGRAM ELECTIVES

Code	Title	Hours
PARALEG 150	Legal Research and Writing I	3
PARALEG 220	Criminal Law for the Paralegal	3
PARALEG 224	Wills, Trusts and Probate	3
PARALEG 226	Internship for the Paralegal	3
PARALEG 227	Elder Law	3
PARALEG 228	Environmental Law for the Paralegal	3
PARALEG 229	Immigration Law	3
PARALEG 239	Business Organizations & Agency Law	3
PARALEG 240	Computers in the Law Office	3

Patient Care Technician, Basic Certificate



College(s): MX

Program Code: 0396

The Patient Care Technician basic certificate provides the educational background required for pursuing a career in the healthcare industry. The curriculum covers the foundational knowledge, skills, and abilities needed to function as an entry level healthcare provider. The program focuses on student development in the following competencies essential to all healthcare providers: effective communication, accountability, cultural competence, use of information systems, and patient safety. Upon completion of the BC, students will demonstrate that they can deliver safe, culturally-competent, and evidence-based patient care.

For more information about the Patient Care Technician program at Malcolm X College, visit the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Patient-Care-Technician-Health-Professions-.aspx>).



Program Requirements

Code	Title	Hours
Required Program Core		
STHLTH 174	Patient Care Technician Training	8
STHLTH 624	BNA Fundamentals/Clinical	8
Total Hours		16

Pathway

This is an **example course sequence** for students interested in health professions. If this pathway is followed as outlined, you will earn a Patient Care Technician Basic Certificate (BC). This does not represent a contract nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
STHLTH 174	Patient Care Technician Training	8
STHLTH 624	BNA Fundamentals/Clinical	8
Hours		16
Total Hours		16

Choose your courses with your College Advisor.

Personal Fitness Trainer, Basic Certificate



College(s): MX

Program Code: 0397

The Basic Certificate program provides students with the educational background required for pursuing a career in the health and fitness industry. The curriculum provides the basic foundational skills needed to assess human body mechanics and the ability to develop and implement exercise training programs designed to improve and maintain health-related components of fitness and performance. This knowledge will prepare students to achieve personal trainer certification from the National Academy of Sports Medicine (NASM). Employment opportunities with this certification include personal trainer, group exercise instructor, and/or entry-level positions available at corporate or community fitness centers (i.e. health clubs, hospital fitness centers, YMCA, community recreational centers, etc.).

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
ESSS 101	Personal Trainer Preparation	4
ESSS 112	Functional Anatomy & Kinesiology	5
PSYCH 201	General Psychology	3
Required Work-Based Learning Courses		
ESSS 102	Personal Trainer Practicum	2
Total Hours		17

Pathway

This is an **example course sequence** for students interested in earning a certificate in personal fitness training. If pathway is followed as outlined,

student will earn a Basic Certificate (BC) in Personal Fitness Trainer. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
PSYCH 201	General Psychology	3
ESSS 101	Personal Trainer Preparation	4
ESSS 102	Personal Trainer Practicum	2
ESSS 112	Functional Anatomy & Kinesiology	5
Hours		17
Total Hours		17

Choose your courses with your College Advisor.

Pharmacy Technology, Advanced Certificate



College(s): MX

Program Code: 0254

Pharmacy technicians assist and support licensed pharmacists in providing health care and medications to patients. They may perform many of the same duties as pharmacists, but all technicians' work must be checked by a pharmacist before medication is dispensed. While pharmacy technicians can work everywhere pharmacists work, some state laws may limit the duties they perform. A special application is required for entry into the program. Upon acceptance into the program, students must provide proof of current health insurance and recent medical examination.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Pharmacy Technology Program, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Pharmacy-Technology.aspx>).



Program Requirements

Code	Title	Hours
Required Program Core		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
PHAR TC 101	Pharmacology Allied Health	4
PHAR TC 102	Basic Science for Allied Health Personnel	4
PHAR TC 103	Intro To Pharmacy Technology	4
PHAR TC 104	Pharmaceutical Calculations	3
PHAR TC 113	Prescription Processing	2

PHAR TC 121	Pharmacy Communication	3
PHAR TC 201	Intro To Pharmacy Law	1
PHAR TC 202	Pharmacy Operations	4
Required Work-Based Learning Courses		
PHAR TC 204	Clinical Practicum I	4
PHAR TC 205	Clinical Practicum II	4
Total Hours		37

Pathway

This is an **example course sequence** for students interested in Pharmacy Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) in Pharmacy Technology.

The Advanced Certificate program in Pharmacy Technology prepares students for employment as Pharmacy Technicians. The program is accredited by the American Society of Health-System Pharmacists and Accreditation Council for Pharmacy Education. Pharmacy technicians assist and support licensed pharmacists in providing health care and medications to patients. They may perform many of the same duties as pharmacists, but all technicians' work must be checked by a pharmacist before medication is dispensed. While Pharmacy Technicians can work everywhere pharmacists work, some state laws may limit the duties they perform.

Prospective students must apply for admission into the Pharmacy Technology program.

For more information on the Pharmacy Technology Program, please call (312) 850-7385.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
PHAR TC 102	Basic Science for Allied Health Personnel	4
PHAR TC 103	Intro To Pharmacy Technology	4
PHAR TC 104	Pharmaceutical Calculations	3
PHAR TC 201	Intro To Pharmacy Law	1
	Hours	16
Semester 2		
PHAR TC 101	Pharmacology Allied Health	4
PHAR TC 113	Prescription Processing	2
PHAR TC 121	Pharmacy Communication	3
PHAR TC 202	Pharmacy Operations	4
	Hours	13
Semester 3		
PHAR TC 204	Clinical Practicum I	4
PHAR TC 205	Clinical Practicum II	4
	Hours	8
	Total Hours	37

Choose your courses with your College Advisor.

Program Admission Requirements

Applicants are eligible to apply online after the following is completed:

- Submit proof of graduation in the form of an official high school or GED transcript to the MXC Office of Registrar Services.
- Submit official college transcripts from all accredited colleges attended outside of City Colleges of Chicago.
- Minimum cumulative GPA of 2.00
- Eligible for ENGLISH 101 Composition
- Eligible for MATH 118 General Education Math or college-level Math

For more information on admissions requirements and the application process, visit the Pharmacy Technology webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Pharmacy-Technology.aspx>).

Phlebotomy, Basic Certificate



College(s): MX

Program Code: 0219

The BC in Phlebotomy leads to certification through the National Phlebotomy Association (NPA), the American Society of Clinical Pathologists (ASCP), and the American Society of Phlebotomy Technicians (ASPT). The phlebotomist is an entry level health care worker who serves as the direct link between the patient and the laboratory. The position is responsible for drawing both venous and arterial blood specimens from patients and sending blood to the laboratory. In some cases, physician approval is required. The laboratory technologist relies on the integrity and accuracy of the phlebotomist in procuring the proper specimens; accurate diagnosis of a patient's condition can depend on quality work. Phlebotomists can further their education and become laboratory technicians or technologists.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Phlebotomy program at Malcolm X College, visit the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Phlebotomy.aspx>).



Program Requirements

Code	Title	Hours
Required Work-Based Learning Courses		
BIOLOGY 120	Terminology For Medical Careers	3
PHLEB 109	Phlebotomy Practicum and Seminar I	5

PHLEB 209	Phlebotomy Practicum and Seminar II	8
Total Hours		16

Pathway

This is an **example course sequence** for students interested in Phlebotomy. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Phlebotomy. The Basic Certificate program in Phlebotomy leads to certification through the National Phlebotomy Association (NPA), the American Society of Clinical Pathologists (ASCP), and the American Society of Phlebotomy Technicians (ASPT).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
BIOLOGY 120	Terminology For Medical Careers	3
PHLEB 109	Phlebotomy Practicum and Seminar I	5
PHLEB 209	Phlebotomy Practicum and Seminar II	8
Hours		16
Total Hours		16

Choose your courses with your College Advisor.

Program Admission Requirements

- Submit a complete application to the Phlebotomy program
- Provide an official high school transcript or GED certificate showing date of graduation or completion

- Prerequisites: ENGLISH 96 Aligned Reading and Composition eligibility

Students that meet all of the minimum admission requirements listed above will be considered by the program director for admission into the Phlebotomy program. Please note that admission is highly competitive and that not all students who meet these minimum requirements will be admitted. Students are advised to carefully prepare their application, giving special attention to content and format. Applications for the program are accepted March through May for Fall semester and September through December for Spring semester. The program is offered every Fall and Spring semester. For more information on the Phlebotomy program, call (312) 850-7375.

For information on the application and admissions process, visit the program webpage (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Phlebotomy.aspx>).

Physical Therapist Assistant, Associate in Applied Science



College(s): MX

Program Code: 0406

The Physical Therapist Assistant curriculum provides graduates to be employed in direct patient care settings under the supervision of a licensed physical therapist. Physical therapy assistants work to progress or return function by alleviation or prevention of physical impairment and perform other essential activities in a physical therapy setting. Coursework includes human anatomy and physiology, the consequences of disease or injury, and physical therapy treatment of a variety of patient conditions affecting humans throughout the life span. Clinical education is provided at cooperating hospitals, public health facilities, and private physical therapy centers. Students entering clinical externships may be required to provide a criminal background check and drug screening test before or during each rotation. Upon completion of the program, students must sit for and pass the Physical Therapist Assistant licensure exam, administered by the Illinois Department of Financial and Professional Regulations, in order to be employed and practice in the field. Employment opportunities for physical therapy assistants include hospitals, physician offices, physical therapy clinics, and private practices.

The Physical Therapist Assistant Program at Malcolm X College is accredited by the:

Commission on Accreditation in Physical Therapy Education (CAPTE)
3030 Potomac Ave., Suite 100
Alexandria, Virginia 22305-3085
telephone: 800-999-2782
email: accreditation@apta.org
website: <http://www.capteonline.org> (<http://www.capteonline.org/>)

If needing to contact the program/institution directly, please call 312-850-7021 or email edicapo@ccc.edu.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Physical Therapist Assistant program at Malcolm X College, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Physical-Therapist-Assistant.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
BIOLOGY 116	Introduction to Anatomy And Physiology	4
MATH 118	General Education Math	4
PHYSICS 131	Mechanics And Power	3
PSYCH 201	General Psychology	3
Required Program Core		
PTA 110	Introduction to Physical Therapy	2
PTA 140	Health Promotion & Wellness I	1
PTA 150	Therapeutic Procedures I	3
PTA 160	Orthopedic Practice & Exercise	4
PTA 170	Therapeutic Procedures II	3
PTA 171	Cardiopulmonary & Vascular Practice	2
PTA 200	Pathophysiology & Complex Systems	2
PTA 201	Neuromuscular Rehabilitation	3
PTA 220	Physical Therapy Across the Lifespan	2
PTA 240	Health Promotion & Wellness II	2
ESSS 101	Personal Trainer Preparation	4
ESSS 103	Allied Health Clinical Skills	2
ESSS 112	Functional Anatomy & Kinesiology	5

Required Work-Based Learning Courses

ESSS 102	Personal Trainer Practicum	2
PTA 211	PTA Clinical Education I	7
PTA 260	Advanced PTA Clinical Education	7
Total Hours		68

Pathway

This is an **example course sequence** for students interested in the Physical Therapist Assistant program. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science degree in Physical Therapist Assistant.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
Fall/Spring		
ESSS 101	Personal Trainer Preparation	4
ESSS 102	Personal Trainer Practicum	2
ESSS 112	Functional Anatomy & Kinesiology	5
ENGLISH 101	Composition ¹	3
Hours		14
Semester 2		
Fall/Spring		
ESSS 103	Allied Health Clinical Skills	2
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	4
PSYCH 201	General Psychology ¹	3
MATH 118	General Education Math ¹	4
PHYSICS 131	Mechanics And Power ¹	3
Hours		16
Semester 3		
Summer		
PTA 110	Introduction to Physical Therapy	2
PTA 150	Therapeutic Procedures I	3
PTA 160	Orthopedic Practice & Exercise	4
Hours		9
Semester 4		
Fall		
PTA 140	Health Promotion & Wellness I	1
PTA 170	Therapeutic Procedures II	3
PTA 171	Cardiopulmonary & Vascular Practice	2
PTA 201	Neuromuscular Rehabilitation	3
PTA 211	PTA Clinical Education I	7
Hours		16
Semester 5		
Spring		
PTA 200	Pathophysiology & Complex Systems	2
PTA 220	Physical Therapy Across the Lifespan	2
PTA 240	Health Promotion & Wellness II	2
PTA 260	Advanced PTA Clinical Education	7
Hours		13
Total Hours		68

¹

General Education Requirement

Choose your courses with your College Advisor.

Program Admission Requirements

The program is very competitive, and having the minimum requirements does not indicate that you will be accepted into the program. Students having less than minimum requirements will not be considered. In order to enter the program students must:

- Be at least 18 years of age
- Graduate from an accredited high school or earn a GED
- Meet general admissions requirements for Malcolm X College including successful completion of all prerequisite courses for the Physical Therapist Assistant program
- Have a minimum cumulative GPA of 2.5 in all college-level work
- Official college transcripts from all colleges attending outside of City Colleges of Chicago. All transcripts should be submitted to the Malcolm X College Office of Registrar Services (<https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Registrar.aspx>).
- Grade of "C" or better in:

Code	Title	Hours
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	4
PSYCH 201	General Psychology	3
PHYSICS 131	Mechanics And Power	3
ESSS 101	Personal Trainer Preparation	4
ESSS 102	Personal Trainer Practicum	2
ESSS 103	Allied Health Clinical Skills	2
ESSS 112	Functional Anatomy & Kinesiology	5

¹

OR BIOLOGY 226 Human Structure and Function I AND BIOLOGY 227 Human Structure and Function II

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo fingerprinting prior to licensing with the state of Illinois. Students should consult with an advisor if any of these requirements are a concern.

For more information on admissions requirements and the application process, visit the Physical Therapist Assistant program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Physical-Therapist-Assistant.aspx>).

Plumbing and Fire Protection, Basic Certificate



College(s): KK

Program Code: 0753

The Basic Certificate program in Plumbing and Fire Protection program is designed to introduce students to plumbing and sprinkler systems through theory and hands on work. Upon successful completion, graduates will be qualified to work as a plumber's assistant and or fitter assistant.

Future Ready Eligible

Program Requirements

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 432	Basic Arc Welding	1
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
332TECH 437	Basic Plumbing Related Math	1
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
332TECH 448	Vocational Physical Training I	1
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
330BSCM 532	Basic Computer Technology	1
Total Hours		20

a Basic Certificate (BC) in Plumbing and Fire Protection. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 409	Construction Safety	1
332TECH 448	Vocational Physical Training I	1
332TECH 432	Basic Arc Welding	1
332TECH 434	Introduction To Plumbing	3
332TECH 437	Basic Plumbing Related Math	1
PHASE 2		
332TECH 462	Vocational Physical Training II	1
332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
PHASE 3		
330BSCM 532	Basic Computer Technology	1
332TECH 463	Vocational Physical Training III	1
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
Hours		20
Total Hours		20

Choose your courses with your College Advisor.

Pathway

This is an **example course sequence** for students interested in plumbing and fire protection. If this pathway is followed as outlined, you will earn

Practical Nursing, Advanced Certificate



College(s): MX

Program Code: 0240

The Advanced Certificate program in Practical Nursing provides students with a basic knowledge of nursing theory and practice. Graduates of the practical nursing program meet the educational requirements for the National Council Licensure Examination for Practical Nurses (NCLEX-PN) to become a licensed practical nurse (LPN). Graduates of the program may transfer their credits to an associate or bachelor degree nursing program. If more applicants apply than the program can accept, the most qualified applicants will be accepted.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Practical Nursing AC at Malcolm X College, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Nursing-Department.aspx>).

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
ENGLISH 101	Composition	3
BIOLOGY 120	Terminology For Medical Careers	3
BIOLOGY 121	Biology I	5
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
MATH 118 or MATH 125	General Education Math Introductory Statistics	4
NURSING 150	Nursing Fundamentals I	4
NURSING 151	Nursing Fundamentals II	4
NURSING 152	Nursing Perspectives	2

NURSING 153	Nursing Thru Life Span I	5
NURSING 154	Nursing Thru Life Span II	5
NURSING 155	Nursing Thru Life Span III	6
Total Hours		49

Pathway

This is an **example course sequence** for students interested in nursing. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC) in Practical Nursing.

The Advanced Certificate program in Practical Nursing provides students with a basic knowledge of nursing theory and practice. Graduates of the practical nursing program meet the educational requirements for the National Council Licensure Examination for Practical Nurses (NCLEX-PN) to become a licensed practical nurse (LPN). Graduates of the program may transfer their credits to an associate or bachelor degree nursing program. If more applicants apply than the program can accept, the most qualified applicants will be accepted.

Prospective students must apply for admission into the Practical Nursing program.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
BIOLOGY 121	Biology I	5
BIOLOGY 120	Terminology For Medical Careers	3
MATH 118	General Education Math (or higher)	4
Hours		15

Semester 2		
NURSING 150	Nursing Fundamentals I	4
NURSING 151	Nursing Fundamentals II	4
NURSING 152	Nursing Perspectives	2
BIOLOGY 226	Human Structure and Function I	4
Hours		14
Semester 3		
NURSING 153	Nursing Thru Life Span I	5
NURSING 154	Nursing Thru Life Span II	5
BIOLOGY 227	Human Structure and Function II	4
Hours		14
Semester 4		
NURSING 155	Nursing Thru Life Span III	6
Hours		6
Total Hours		49

For more information on admissions requirements and the application process, visit the Nursing Department webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Nursing-Department.aspx>).

Choose your courses with your College Advisor.

Program Admission Requirements

To be eligible to apply to the CCC Practical Nursing Program, a student must have successfully completed:

1. All four prerequisite courses:

Code	Title	Hours
Prerequisite Courses*		
BIOLOGY 120	Terminology For Medical Careers	3
BIOLOGY 121	Biology I (completed within the past 10 years)	5
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher)	4
Total Hours		15

*

All prerequisite courses (4) must be completed prior to the posted online application deadline. Prerequisite courses (4) include (with a "C" or higher)

2. Submit high school diploma or GED transcripts to the Office of the Registrar at Malcolm X College.
3. Program Application
4. Submit official college transcripts to the Office of the Registrar at Malcolm X College.
5. Proof of eligibility for college level mathematics by coursework or placement test
6. **ATI TEAS Exam:**
 - a. Minimum Cumulative Score: 60%
 - b. Minimum Reading Score: 70%
7. Cumulative GPA of 2.5

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo fingerprinting prior to licensing with the state of Illinois. Students should consult with a College Advisor if any of these requirements are a concern.

Quality Assurance, Basic Certificate

College(s): DA*

Program Code: 0729

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
MATH 125	Introductory Statistics	4
340MFGT 104	Statistical Process Control	3
340MFGT 139	Print Requirements-Quality Assurance	3
340MFGT 142	Geometric Dimensioning and Tolerancing	3
340MFGT 143	Advanced Metrology	3
Total Hours		16

Racial Healing Practitioner, Basic Certificate



College(s): KK

Program Code: 0458

The Racial Healing Practitioner Basic Certificate aims to jettison the false belief in a hierarchy of human value and replace that archaic notion with a reverence and appreciation for the equal and interconnected nature of the human family. The Racial Healing Practitioner Basic Certificate will cover the five components of the racial Healing Framework which are Narrative Change, Racial Healing, and Relationship Building, Separation, Law, and Economy. The ultimate goal of the Racial Healing Practitioner Basic Certificate is to expand the community of healers by training, empowering, and emboldening youth, and youth workers.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
SOC 241	Institutional Racism	3
SOC SER 101	Introduction To Social Work	3
SOC SER 108	Racial Healing Methodology	3
SOC SER 212	Intro To Group Process	3
Required Work-Based Learning Course		
SOC SER 208	Racial Healing Practicum	1
Program Electives		
Select one of the following courses:		3
AFRO AM 101	Introduction to African-American Studies	
HISTORY 114	The Afro-American In American History	
HISTORY 115	Afro-American History Since 1865	
HISTORY 213	American Civil Rights Movement	
HISTORY 216	U.S. Latinx History	
SOC SCI 221	Black Economics	

SOC 209	The Black Man In The U S	
Total Hours		19

Pathway

This is an example course sequence for students interested in pursuing a Racial Healing Practitioner certificate. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn the Racial Healing Practitioner Basic Certificate (BC).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
SOC 241	Institutional Racism	3
SOC SER 101	Introduction To Social Work	3
SOC SER 108	Racial Healing Methodology	3
		Hours
		12
Semester 2		
SOC SER 208	Racial Healing Practicum	1
SOC SER 212	Intro To Group Process	3
Select one of the following courses:		3
AFRO AM 101	Introduction to African-American Studies	
HISTORY 114	The Afro-American In American History	
HISTORY 115	Afro-American History Since 1865	
HISTORY 213	American Civil Rights Movement	
HISTORY 216	U.S. Latinx History	
SOC SCI 221	Black Economics	

SOC 209	The Black Man In The U S	
	Hours	7
	Total Hours	19

Choose your courses with your College Advisor.

Radiography, Associate in Applied Science



College(s): MX

Program Code: 0246

The AAS in Radiography is the study of the theory, technical skills, patient care, and techniques necessary to use radiation in the diagnosis of disease. Completion of the program can lead to employment as an x-ray technologist or radiographer in private and public hospitals, clinics, and laboratories. The AAS degree in Radiography provides the necessary professional skills, progressive maturity, and the intellectual, social, and emotional values necessary for a graduate to be a trustworthy member of the healthcare team.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Radiography program at Malcolm X College, visit the program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Radiography.aspx>).

Program Requirements

Code	Title	Hours
Program Prerequisites		
MATH 118	General Education Math (or higher Mathematics course)	
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	
HEAPRO 102	Health Career Studies ²	
General Education Coursework		
ENGLISH 101	Composition	3
PHYSICS 131	Mechanics And Power (or higher)	3
PSYCH 201	General Psychology	3
SPANISH 191	Survival Spanish Nursing (HD) ³	3
Required Program Core		
RADIOGR 101	Intro To Radiation Sciences	2

RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 105	Imaging Physics	4
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
RADIOGR 128	Image Evaluation	1
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 200	Pathology	4
RADIOGR 202	Radiology Management	1
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 206	Imaging	2
RADIOGR 208	Radiobiology	3
RADIOGR 232	Radiographic Procedures II	4
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 242	Radiography Clinical Ed II	4
RADIOGR 243	Radiography Clinical Education III	4
RADIOGR 244	Radiography Clinical Education IV	4

Total Hours 69

¹ BIOLOGY 226 Human Structure and Function I and BIOLOGY 227 Human Structure and Function II may substitute

² BIOLOGY 120 Terminology For Medical Careers may substitute

³ Or other HD general education course (p. 438)

At least one course must meet the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in earning a degree in Radiography. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Radiography.

Upon completion of the program of study, graduates become eligible to take the national certification exam offered by the American Registry of Radiologic Technologists (ARRT). In addition, graduates may apply for a license from the Illinois Emergency Management Agency/Division of Nuclear Safety.

Prospective students must apply for admission into the Radiography program.

FALL COHORT - Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
Fall		
RADIOGR 101	Intro To Radiation Sciences	2
RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
ENGLISH 101	Composition ¹	3
Hours		12
Semester 2		
Spring		
RADIOGR 105	Imaging Physics	4
RADIOGR 128	Image Evaluation	1
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
PHYSICS 131	Mechanics And Power ¹	3
Hours		13
Semester 3		
Summer		
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 232	Radiographic Procedures II	4
Hours		7
Semester 4		
Fall		
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 208	Radiobiology	3
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 242	Radiography Clinical Ed II	4
PSYCH 201	General Psychology ¹	3
Hours		17
Semester 5		
Spring		
RADIOGR 200	Pathology	4
RADIOGR 206	Imaging	2
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 243	Radiography Clinical Education III	4
SPANISH 191	Survival Spanish Nursing (HD)	3
Hours		15
Semester 6		
Summer		
RADIOGR 202	Radiology Management	1

RADIOGR 244	Radiography Clinical Education IV	4
Hours		5
Total Hours		69

1

General Education Requirement

SPRING COHORT - Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
Spring		
RADIOGR 101	Intro To Radiation Sciences	2
RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
ENGLISH 101	Composition ¹	3
Hours		12
Semester 2		
Summer		
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
Hours		5
Semester 3		
Fall		
RADIOGR 105	Imaging Physics	4
RADIOGR 128	Image Evaluation	1
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 232	Radiographic Procedures II	4
PHYSICS 131	Mechanics And Power (or higher) ¹	3
Hours		15
Semester 4		
Spring		
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 208	Radiobiology	3
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 242	Radiography Clinical Ed II	4
PSYCH 201	General Psychology ¹	3
Hours		17
Semester 5		
Summer		
RADIOGR 200	Pathology	4
RADIOGR 243	Radiography Clinical Education III	4
Hours		8
Semester 6		
Fall		
RADIOGR 202	Radiology Management	1
RADIOGR 206	Imaging	2
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 244	Radiography Clinical Education IV	4
SPANISH 191	Survival Spanish Nursing (HD) ¹	3
Hours		12
Total Hours		69

1

General Education Requirement

Choose your courses with your College Advisor.

Program Admission Requirements

The program is very competitive, and having the minimum requirements does not indicate that you will be accepted into the program. Students having less than minimum requirements will not be considered. In order to enter the program students must:

- 18 years of age or older
- Grade of "C" or better in:

Code	Title	Hours
MATH 118	General Education Math (or higher Mathematics course)	4
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	4
HEAPRO 102	Health Career Studies ²	3

1

BIOLOGY 226 Human Structure and Function I *and* BIOLOGY 227 Human Structure and Function II may substitute

2

BIOLOGY 120 Terminology For Medical Careers may substitute

- Official college transcripts
- 2.7 College GPA
- Complete the application packet
- For application details, please visit the Radiography page on www.ccc.edu (<http://www.ccc.edu>)

Students that meet all of the minimum admission requirements listed above will be scheduled for an interview with the program director. Students that complete this interview will be considered for admission to the program. Please note that admission is highly competitive and that not all students who are interviewed will be admitted. Students are advised to prepare for the interview, to arrive early, and to dress appropriately for a professional interview. Students are also advised to carefully prepare their application, giving special attention to content and format.

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo fingerprinting prior to licensing with the state of Illinois. Students should consult with an advisor if any of these requirements are a concern.

Physical Requirements Needed for Successful Performance in the Clinical Area

A person working in the field as a radiographer may be required to perform many extraneous and laborious tasks. Patient care in the clinical area requires excellent communication and language skills.

Therefore all students must be able to:

- Stand on their feet for approximately 8 hours.

- Push and/or pull patients with weights that may exceed 200 lbs.
- Communicate in English well enough so that you can be understood by others, and others can understand you.
- Execute both hand and pedal dexterity.
- Give directions and respond to patient requests.
- Operate portable equipment.
- Visually critique a film.
- Exhibit good hearing ability and is able to exercise good body mechanics.
- Lift and carry various accessory equipment.

For more information on admissions and the application process, visit the Radiography program webpage (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Radiography.aspx>).

Real Estate Broker Pre-Licensure, Basic Certificate

College(s): DA*

Program Code: 0833

**Beginning Summer 2016, this program is no longer accepting new students in credit. Look for this program in CCC's Continuing Education offerings (<https://www.ccc.edu/departments/Pages/Continuing-Education.aspx>).*

Program Requirements

Code	Title	Hours
Required Program Core		
STBPS 238	IL Real Estate Broker PreLicense	6
STBPS 239	IL Broker Applied Real Estate Principles-Interactive	1
Total Hours		7

Respiratory Care, Associate in Applied Science



College(s): MX

Program Code: 0234

The Associate in Applied Science degree in Respiratory Care will offer the study of theory and techniques instrumental in diagnosis, treatment, management, and preventive care of patients with cardiopulmonary problems. It will prepare the student to become a well-rounded professional and competent advanced respiratory therapist. The graduate will be eligible to take the National Board For Respiratory Care entry-level respiratory care practitioner examination to become a "Certified Respiratory Therapist" and the advanced level respiratory care practitioner examination to become a "Registered Respiratory Therapist." Successful completion of the program can lead to employment as a respiratory therapist in hospitals, clinics or home settings or branch off into research, sales, education or other career opportunities.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information about the Respiratory Care program at Malcolm X College, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Respiratory-Care.aspx>).

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher Mathematics course) ²	4
PHYSICS 131	Mechanics And Power	3

Fine Arts & Humanities course	3
Social and Behavioral Sciences course	3

Required Program Core

RESP TC 114	Basic Respiratory Care	4
RESP TC 115	Cardiopulmonary/Renal Anatomy & Physiology	3
RESP TC 116	Patient Assessment	2
RESP TC 117	Respiratory Pharmacology	1
RESP TC 118	Respiratory-Microbiology	2
RESP TC 119	Respiratory Care Lab I	3
RESP TC 127	Clinical Practice I	3
RESP TC 129	Clinical Practice II	3
RESP TC 137	Advanced Pathology & Clinical Application	3
RESP TC 139	Respiratory Care Lab II	2
RESP TC 141	Ventilatory-Mechanics I	3
RESP TC 146	Ventilatory Mechanics II	3
RESP TC 200	Respiratory Care Lab III	2
RESP TC 222	Clinical Practice III	3
RESP TC 224	Clinical Practice IV	4
RESP TC 225	Age Specific Care	3
RESP TC 227	Critical Care Services	4
RESP TC 230	Advanced Cardiopulmonary Monitoring	3
RESP TC 250	Cardiopulmonary Rehabilitation Home Care	1
RESP TC 260	Advanced Specialty Topics	3
Total Hours		71

¹

One course must fulfill the Human Diversity (HD) requirement

2

Except MATH 140 College Algebra

Pathway

This is an **example course sequence** for students interested in earning a degree in Respiratory Care. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science Degree (AAS) in Respiratory Care.

Prospective students must apply for admission into the Respiratory Care program.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118	General Education Math ¹	4
CHEM 121	Basic Chemistry I ²	4
Select one of the following:		4
BIOLOGY 116	Introduction to Anatomy And Physiology ²	15
BIOLOGY 226 & BIOLOGY 227	Human Structure and Function I and Human Structure and Function II ^{2,3}	
Hours		15
Semester 2		
PHYSICS 131	Mechanics And Power ¹	3
Fine Arts & Humanities course ¹		3
Social and Behavioral Sciences course (HD) ¹		3
Hours		9
Semester 3		
Fall I		
RESP TC 114	Basic Respiratory Care	4
RESP TC 115	Cardiopulmonary/Renal Anatomy & Physiology	3
RESP TC 116	Patient Assessment	2
RESP TC 117	Respiratory Pharmacology	1
RESP TC 118	Respiratory-Microbiology	2
RESP TC 119	Respiratory Care Lab I	3
Hours		15
Semester 4		
Spring I		
RESP TC 127	Clinical Practice I	3
RESP TC 137	Advanced Pathology & Clinical Application	3
RESP TC 139	Respiratory Care Lab II	2
RESP TC 141	Ventilatory-Mechanics I	3
Hours		11
Semester 5		
Summer I		
RESP TC 129	Clinical Practice II	3
RESP TC 146	Ventilatory Mechanics II	3
Hours		6
Semester 6		
Fall II		
RESP TC 200	Respiratory Care Lab III	2
RESP TC 222	Clinical Practice III	3
RESP TC 225	Age Specific Care	3

RESP TC 227	Critical Care Services	4
Hours		12
Semester 7		
Spring II		
RESP TC 224	Clinical Practice IV	4
RESP TC 230	Advanced Cardiopulmonary Monitoring	3
RESP TC 250	Cardiopulmonary Rehabilitation Home Care	1
RESP TC 260	Advanced Specialty Topics	3
Hours		11
Total Hours		79

1

General Education Requirement

2

Program Prerequisite

3

BIOLOGY 227 Human Structure and Function II next semester

Choose your courses with your College Advisor.

Program Admission Requirements

- 18 years of age or older
- Complete the application packet
- Grade of "C" or better in:

Code	Title	Hours
ENGLISH 101	Composition (or higher)	3
MATH 118	General Education Math (or higher Mathematics course)	4
CHEM 121	Basic Chemistry I	4
BIOLOGY 116	Introduction to Anatomy And Physiology	4
	or BIOLOGY 227 Human Structure and Function I & BIOLOGY 227 and Human Structure and Function II	

- 2.5 College GPA
- Official college transcripts
- Submit program application packet to the Respiratory Care Program director at Malcolm X College prior to the application deadline (See website for exact application deadline)¹

1

Students enrolled in prerequisite courses in current semester are eligible to apply to the Respiratory Care program, provided they can demonstrate a course grade of "C" or better. However, admission cannot be granted until all requirements are complete. Students that meet all of the minimum admission requirements listed above will be scheduled for an interview with the program admission committee. Students that complete this interview will be considered for admission to the program. Please note that admission is highly competitive and that not all students who are interviewed will be admitted. Students are advised to prepare for the interview, to arrive early, and to dress appropriately for a professional interview. Students are also advised to carefully prepare their application, giving special attention to content and format.

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo

fingerprinting prior to licensing with the state of Illinois. Students should consult with an advisor if any of these requirements are a concern.

For more information about the admissions requirements and application process, visit the program website (<http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Respiratory-Care.aspx>).

Safety for Process Technology, Basic Certificate

College(s): DA*

Program Code: 0412

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
340PRTE 124	Introduction to Process Technology	4
340PRTE 125	Safety, Health and Environment	6
Total Hours		10

School Age Childcare, Associate in Applied Science

College(s): HW*

Program Code: 0275

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Additional General Education Courses ^{1,2}		12
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition	3
CHLD DV 144	School-Age Activity Programming	
CHLD DV 201	Observation, Assessment, & Documentation to Support Young Children & Families	3
CHLD DV 205	Development of Exceptional Child	3
CHLD DV 262	Child, Family & Community Relations	3
CHLD DV 268	Principles & Practice of School Age Programs	4
SOC SER 212	Intro To Group Process	3
Required Work-Based Learning Courses		
CHLD DV 269	Practicum in School Age Child Care	6
Program Electives		
Select a minimum of 11 credit hours of the following, along with others as recommended by a College Advisor.		11
CHLD DV 109	Language & Literacy Development in Early Childhood	
CHLD DV 149	Creative Activities For Young Children	
Total Hours		58

1

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

2

At least one course must meet the Human Diversity (HD) requirement

Social Work: Generalist, Advanced Certificate

College(s): HW*

Program Code: 0317

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition	3
MENHLTH 223	Intro To Addictions Studies	3
	or MENHLTH 228 Principles of Mental Health Practices	
SOC SER 101	Introduction To Social Work	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 228	Methodology For Social Work	3
	or SOC SER 248 Principles Of Youth & Group Work	
Required Work-Based Learning Courses		
SOC SER 229	Social Service Practicum	6
Total Hours		37

Social Work: Generalist, Associate in Applied Science



College(s): HW*, KK

Program Code: 0313

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington College. Please refer to the program at Kennedy-King College.*

The Associate in Applied Science degree in Social Work includes the study of the generalist approach to working with the individual, family, group, and community. The degree can lead to employment as an aide to a social worker in government, community, or private social service agencies.

Program Requirements

Code	Title	Hours
General Education Coursework ¹		
ENGLISH 101	Composition	3
Additional General Education Courses ²		12
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
CHLD DV 107	Health Safety And Nutrition	3
MENHLTH 223	Intro To Addictions Studies	3
SOC SER 101	Introduction To Social Work	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 201	Principles of Social Work Practice	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 228	Methodology For Social Work	3
	or SOC SER 244 Principles Of Youth & Group Work	
Required Work-Based Learning Courses		
SOC SER 229	Social Service Practicum	6

Program Electives

Select 14 credit hours ³	14
Total Hours	66

¹

At least one course must meet the Human Diversity (HD) requirement

²

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

³

Students are urged to take elective courses in Psychology, Sociology, Child Development, Anthropology, Criminal Justice, and Addiction Studies to become familiar with various approaches to individual, group, or societal problems. In addition, CIS 120 Introduction to Computer Applications and ENGLISH 102 Composition, are strongly recommended. Meet with a College Advisor for course selection.

Social Work: Youth Work, Advanced Certificate

College(s): HW*

Program Code: 0317

**Beginning Summer 2016, this program is no longer accepting new students.
Please refer to CCC's other Liberal Arts offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 228	Principles of Mental Health Practices	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 248	Principles Of Youth & Group Work	3
Required Work-Based Learning Courses		
SOC SER 249	Practicum In Youth Work	6
Total Hours		31

Social Work: Youth Work, Associate in Applied Science

College(s): HW*

Program Code: 0370

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other social service offerings.*

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
SOC SCI 101	General Course I Social Science	3
	Fine Arts & Humanities course	3
	Physical Sciences course	3
Required Program Core		
BUSINES 111	Introduction To Business	3
CHLD DV 101	Human Growth & Development I	4
CHLD DV 102	Human Growth & Development II	3
MENHLTH 223	Intro To Addictions Studies	3
MENHLTH 228	Principles of Mental Health Practices	3
PSYCH 211	Social Psychology (HD)	3
SOC SER 109	Report Writing for Social Service Aides	3
SOC SER 212	Intro To Group Process	3
SOC SER 215	Social Prob & Soc Action I	3
SOC SER 248	Principles Of Youth & Group Work	3
Required Work-Based Learning Courses		
SOC SER 249	Practicum In Youth Work	6
Program Electives		
	Students should meet with a College Advisor for selection of elective courses.	10
Total Hours		63

At least one course must meet the Human Diversity (HD) requirement

Software Development, Advanced Certificate



College(s): DA, HW, KK, MX*, OH, TR*, WR

Program Code: 0441

**This program is not currently enrolling new students at Malcolm X or Truman Colleges. Please see the Software Development BC or AAS for those colleges.*

In an increasingly digital world, software development is key to the technology we use in our daily lives. There is now a growing need for software developers to create new mobile applications and software services in a variety of businesses and fields. City Colleges' Software Development program teaches students several in-demand programming languages, including Python, C++, Java and JavaScript. Through the courses, students will learn the whole life cycle of software and be ready to meet employer demands.

The Advanced Certificate provides a more advanced level of C++ or Java (data structure), JavaScript/jQuery (frontend website programming language). Students will also build skills with either PHP (backend website programming language) or Android Studio (mobile application development), and have the chance to obtain hands-on experience through a variety of projects.

Program Requirements

Code	Title	Hours
Required Program Core		
MATH 118 or MATH 140	General Education Math ¹ College Algebra	4
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming	3
CIS 114 or CIS 281	Mobile Application Development Web Development III/Server Side Programming	3
CIS 142	C++ Object Oriented Programming I	3

CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242 or CIS 244	C++ Object Oriented Programming II Java Object Oriented Programming II	3
CIS 245	Principles of Software Development	3
NET TEC 101	Client-Server Database I	3
Total Hours		34

1

MATH 140 College Algebra is a prerequisite for MATH 146 Discrete Mathematics, which may be applied to the Software Development Associate in Applied Science Degree. Higher numbered courses can also fulfill this requirement.

Pathway

This is an **example course sequence** for students interested in earning an Advanced Certificate in Software Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Software Development.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MATH 118 or MATH 140	General Education Math ¹ or College Algebra	4
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming	3

CIS 181	Web Development I/Basic Web Technologies	3
	Hours	13
Semester 2		
CIS 142 or CIS 144	C++ Object Oriented Programming I or Java Object Oriented Programming I	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 245	Principles of Software Development	3
NET TEC 101	Client-Server Database I	3
	Hours	12
Semester 3		
CIS 114 or CIS 281	Mobile Application Development or Web Development III/Server Side Programming	3
CIS 142 or CIS 281	C++ Object Oriented Programming I or Web Development III/Server Side Programming	3
CIS 242 or CIS 244	C++ Object Oriented Programming II or Java Object Oriented Programming II	3
	Hours	9
	Total Hours	34

1

MATH 140 College Algebra is a prerequisite for MATH 146 Discrete Mathematics, which may be applied to the Software Development Associate in Applied Science Degree. Higher numbered courses can also fulfill this requirement.

Software Development, Associate in Applied Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0440

In an increasingly digital world, software development is key to the technology we use in our daily lives. There is now a growing need for software developers to create new mobile applications and software services in a variety of businesses and fields. City Colleges' Software Development program teaches students several in-demand programming languages, including Python, C++, Java and JavaScript. Through the courses, students will learn the whole life cycle of software and be ready to meet employer demands.

The degree program focuses on developing expertise in at least one programming language, obtaining hands-on experience in the analysis, design, implementation, and maintenance of software applications using those languages. Students also build skills in either back end website programming or mobile application development, and gain work-based experience through an internship or field project. Graduates of the AAS in Software Development will be prepared to enter the workforce as entry-level programmers.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
	Fine Arts & Humanities Course ¹	3
	Select one of the following:	3
	Physical Sciences & Life Sciences	
ECON 201	Principles Of Economics I	
ECON 202	Principles Of Economics II	
	Select two Mathematics Courses:	8
MATH 118	General Education Math (or higher)	

MATH 125	Introductory Statistics
MATH 140	College Algebra (or higher) ²
MATH 146	Discrete Mathematics ²

Required Program Core

BUSINES 111	Introduction To Business	3
	or BUSINES 21: Data Visualization and Presentation for Business	
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming	3
CIS 114	Mobile Application Development	3
	or CIS 281 Web Development III/Server Side Programming	
CIS 142	C++ Object Oriented Programming I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 242	C++ Object Oriented Programming II	3
	or CIS 244 Java Object Oriented Programming II	
CIS 245	Principles of Software Development	3
NET TEC 101	Client-Server Database I	3

Required Work-Based Learning Courses

CIS 260	Computer Information Systems Field Project	3
	or CIS 265 Computer Information Systems Internship	

Program Electives

Select a minimum of 9 credit hours of program electives (p. 298)	9
Total Hours	62

¹

At least one general education course must meet the State of Illinois' Human Diversity requirement.

2

Two Mathematics are required for AAS: MATH 118 General Education Math, or higher. (Acceptable); MATH 140 College Algebra or higher. (Recommend, Pre-requisite for MATH 146 Discrete Mathematics); MATH 125 Introductory Statistics. (Recommend for Software Engineer, Testing, Security, Data, ML, AI); MATH 146 Discrete Mathematics. (Pre-requisite MATH 140 College Algebra – Recommended for Software Engineer)

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 259	Introduction to Project Management	3
CIS 113	Human-Computer Interaction	3
CIS 116	Operating System I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
CIS 250	Systems Analysis and Design	3
CIS 281	Web Development III/Server Side Programming	3
CIS 282	Web Development IV/Web Database Integration	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
COMPSFI 213	Ethical Hacking	3
COMPSFI 215	Information Security Domain	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Pathway

This is an **example course sequence** for students interested in pursuing Software Development. This does not represent a contract or guarantee course availability. If this pathway is followed as outlined, students will earn a Basic Certificate (BC), an Advanced Certificate (AC), and an Associate in Applied Science (AAS) Degree in Software Development.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 101	Computer Science 101 ¹	3
CIS 103	Fundamentals of Programming	3
CIS 181	Web Development I/Basic Web Technologies	3
MATH 118 or MATH 140	General Education Math ^{2,4} or College Algebra	4
ENGLISH 101	Composition ⁴	3
Hours		16
Semester 2		
CIS 142 or CIS 144	C++ Object Oriented Programming I or Java Object Oriented Programming I	3
CIS 182	Web Development II/Client Side Scripting	3

CIS 245	Principles of Software Development	3
NET TEC 101	Client-Server Database I	3
Fine Arts & Humanities course (HD) ^{3,4}		3
Hours		15
Semester 3		
CIS 114 or CIS 281	Mobile Application Development or Web Development III/Server Side Programming	3
CIS 142 or CIS 144	C++ Object Oriented Programming I or Java Object Oriented Programming I	3
CIS 242 or CIS 244	C++ Object Oriented Programming II or Java Object Oriented Programming II	3
Select one of the following: ^{2,4}		4
MATH 125	Introductory Statistics	
MATH 140	College Algebra	
MATH 146	Discrete Mathematics	
Program Elective (p. 299)		3
Hours		16
Semester 4		
BUSINES 111 or BUSINES 213	Introduction To Business or Data Visualization and Presentation for Business	3
CIS 260 or CIS 265	Computer Information Systems Field Project or Computer Information Systems Internship	3
Select one of the following: ⁴		3
Physical Sciences & Life Sciences		
ECON 201	Principles Of Economics I	
ECON 202	Principles Of Economics II	
Program Elective (p. 299)		3
Program Elective (p. 299)		3
Hours		15
Total Hours		62

1

For students who may have taken CIS 101 already, please select CIS 142 or CIS 144 in the first semester, so that you can take CIS 244 or CIS 242 in the later semesters.

2

Two Mathematics are required for AAS:

- MATH 118 General Education Math, (or higher) is acceptable;
- MATH 140 College Algebra (or higher) is recommended (Pre- requisite for MATH 146);
- MATH 125 Introductory Statistics is recommend for Software Engineering, Testing, Security, Data, ML, AI;
- MATH 146 Discrete Mathematics (Pre- requisite MATH 140) is recommended for Software Engineering

3

At least one general education course must meet the State of Illinois' Human Diversity requirement.

4

General education course

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 259	Introduction to Project Management	3
CIS 113	Human-Computer Interaction	3
CIS 116	Operating System I	3
CIS 242	C++ Object Oriented Programming II	3

CIS 244	Java Object Oriented Programming II	3
CIS 250	Systems Analysis and Design	3
CIS 281	Web Development III/Server Side Programming	3
CIS 282	Web Development IV/Web Database Integration	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
COMPSFI 213	Ethical Hacking	3
COMPSFI 215	Information Security Domain	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
NET TEC 121	Internetworking I	3
NET TEC 122	Internetworking II	3
NET TEC 240	Operating Systems/Server I	3

Choose your courses with your College Advisor.

Software Development, Basic Certificate



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0442

In an increasingly digital world, software development is key to the technology we use in our daily lives. There is now a growing need for software developers to create new mobile applications and software services in a variety of businesses and fields. City Colleges' Software Development program teaches students several in-demand programming languages, including Python, C++, Java and JavaScript. Through the courses, students will learn the whole life cycle of software and be ready to meet employer demands.

The Basic Certificate provides an opportunity for students to learn industry-standards through different programming languages including HTML 5 and CSS 3, Python, C++ or Java, and SQL. Students will acquire hands-on experience that develop skills using the Software Development Life Cycle (SDLC) in the analysis, design, implementation, and maintenance of software applications with those programming languages.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
MATH 118 or MATH 140	General Education Math ¹ College Algebra	4
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming	3
CIS 142 or CIS 144	C++ Object Oriented Programming I Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3

CIS 245 Principles of Software Development	3
Select one of the following:	3
CIS 182 Web Development II/Client Side Scripting	
CIS 281 Web Development III/Server Side Programming	
NET TEC 101 Client-Server Database I	
Total Hours	22

1

MATH 140 College Algebra is a prerequisite for MATH 146 Discrete Mathematics, which may be applied to the Software Development Associate in Applied Science Degree. Higher numbered courses can also fulfill this requirement.

Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate in Software Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Software Development.

Semester-by-Semester Pathway for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
MATH 118 or MATH 140	General Education Math ¹ or College Algebra	4
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming	3
CIS 181	Web Development I/Basic Web Technologies	3
Hours		13

Semester 2

CIS 142 or CIS 144	C++ Object Oriented Programming I or Java Object Oriented Programming I	3
CIS 245	Principles of Software Development	3
Select one of the following:		3
CIS 182	Web Development II/Client Side Scripting	
CIS 281	Web Development III/Server Side Programming	
NET TEC 101	Client-Server Database I	
Hours		9
Total Hours		22

1

MATH 140 College Algebra is a prerequisite for MATH 146 Discrete Mathematics, which may be applied to the Software Development Associate in Applied Science Degree

Supply Chain Management and Logistics, Advanced Certificate



College(s): OH

Program Code: 0738

The Advanced Certificate in Supply Chain Management & Logistics is designed for students that have a working understanding of the operational policies and procedures of the TDL industry.

 **Future Ready Eligible**

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
Any General Education Mathematics		3
CIS 120	Introduction to Computer Applications	3
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
SCML 159	Inventory Management	3
SCML 160	Operations Management	3
Total Hours		30

Pathway

This is an example course sequence for students interested in Supply Chain Management & Logistics. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Supply Chain Management & Logistics.

The Advanced Certificate in Supply Chain Management & Logistics provides students with a direct experience working in a logistics environment, building skills critical to success including: operations/business development, receiving, shipping, and case analysis. The program prepares students for working in roles as production, planning, and expediting clerks.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
Hours		15
Semester 2		
ENGLISH 101	Composition	3
MATH 118	General Education Math	4
CIS 120	Introduction to Computer Applications	3
SCML 159	Inventory Management	3
SCML 160	Operations Management	3
Hours		16
Total Hours		31

Choose your courses with your College Advisor.

Supply Chain Management and Logistics, Associate in Applied Science



College(s): OH

Program Code: 0737

The Associate in Applied Science degree in Transportation, Distribution, and Logistics provides students with a direct experience working in a logistics environment, building skills critical to success including: operations/business development, receiving, shipping, and case analysis. The program prepares students for working from entry level to supervisory positions.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
Any General Education Mathematics		3
PSYCH 201	General Psychology	3
ECON 201	Principles Of Economics I	3
Any Social and Behavioral Sciences Gen-Ed that satisfies HD		3
SPEECH 101	Fundamentals of Speech Communication	3
Required Program Core		
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
SCML 159	Inventory Management	3
SCML 160	Operations Management	3
SCML 180	E-Commerce/E-Procurement	3
SCML 181	Demand Planning & Forecasting	3
SCML 182	Global Logistics	3

CIS 120	Introduction to Computer Applications	3
Program Electives		
Select a minimum of 9 credit hours of program electives (p. 304)		9
Total Hours		60

At least one course must meet the Human Diversity (HD) requirement.

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
BUSINES 180	Fundamentals Of Accounting	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 211	Business Law I	3
BUSINES 231	Marketing	3
BUSINES 232	Fundamentals of International Business	3
BUSINES 237	Selling	3
BUSINES 269	Principles Of Management	3
BUSINES 274	Industrial Management	3
BUSINES 284	Business Communications	3
CIS 123	Microcomputer Spreadsheets	3
MATH 125	Introductory Statistics	4
ECON 202	Principles Of Economics II	3
SCML 151	Central Store: Applied Logistics	6

Pathway

This is an **example course sequence** for students interested in Supply Chain Management & Logistics. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and

Associate in Applied Science Degree (AAS) in Supply Chain Management & Logistics. Depending on your chosen electives, you may also earn a BC in Cannabis Dispensary Operations Specialist. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below..

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
Hours		15
Semester 2		
ENGLISH 101	Composition ¹	3
MATH 118	General Education Math ¹	4
CIS 120	Introduction to Computer Applications	3
SCML 159	Inventory Management	3
SCML 160	Operations Management	3
Hours		16
Semester 3		
PSYCH 201	General Psychology ¹	3
ECON 201	Principles Of Economics I	3
SCML 180	E-Commerce/E-Procurement	3
SCML 182	Global Logistics	3
Program Elective (p. 305) ²		3
Hours		15
Semester 4		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Social and Behavioral Sciences course (HD) ¹		3
SCML 181	Demand Planning & Forecasting	3
Program Elective (p. 305) ²		3
Program Elective (p. 305) ²		3
Hours		15
Total Hours		61

1

General Education Requirement

2

Program Elective (p.)

Program Electives

Code	Title	Hours
BUSINES 111	Introduction To Business	3
BUSINES 180	Fundamentals Of Accounting	3
BUSINES 181	Financial Accounting	4
BUSINES 182	Managerial Accounting	4
BUSINES 211	Business Law I	3
BUSINES 231	Marketing	3
BUSINES 232	Fundamentals of International Business	3
BUSINES 237	Selling	3
BUSINES 269	Principles Of Management	3
BUSINES 274	Industrial Management	3

BUSINES 284	Business Communications	3
CIS 123	Microcomputer Spreadsheets	3
MATH 125	Introductory Statistics	4
ECON 202	Principles Of Economics II	3
SCML 151	Central Store: Applied Logistics	6

Choose your courses with your College Advisor.

Supply Chain Management and Logistics, Basic Certificate



College(s): OH

Program Code: 0739

The Basic Certificate in Supply Chain Management & Logistics is designed to provide students who have little or no formal knowledge of the industry with introductory information and understand of the TDL industry. Students will learn the different TDL modalities, identify source types, and learn industry terminology and protocols, as well as applicable rules and regulations.



Program Requirements

Code	Title	Hours
Required Program Core		
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
Total Hours		15

Pathway

This is an **example course sequence** for students interested in Supply Chain Management & Logistics. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Supply Chain Management & Logistics.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
SCML 150	Intro To Transportation Administration	3
SCML 152	Intro To Business Logistics	3
SCML 154	Customer Service Operations	3
SCML 155	Warehouse Management	3
SCML 158	Purchasing	3
Hours		15
Total Hours		15

Choose your courses with your College Advisor.

Surgical Technology, Associate in Applied Science



College(s): MX

Program Code: 0267

Accreditation Status

The Surgical Technology Program at Malcolm X College (MXC) has a site visit scheduled for pursuing initial accreditation by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org).

This step in the process is neither a status of accreditation nor a guarantee that accreditation will be granted. You can also find the program status at:

<https://www.caahep.org/Students/Find-a-Program.aspx>

Occupational Overview

Surgical Technologists are allied health professionals who assist with surgical care of patients. They are experts in the area of aseptic technique, and they function under the direct supervision of the surgeon. Their job responsibilities include, but are not limited to, scrubbing, gowning and gloving self and surgical team, establishment of the sterile field, verification of instrument and miscellaneous counts and the maintenance of the sterile field and the sterility of personnel and supplies during the pre, intra and post operational phases of surgery.

The Accreditation Review Committee on Education in Surgical Technology describes the Surgical Technologists as:

"... Possess[ing] expertise in the theory and application of sterile and aseptic technique and combines the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures."

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
BIOLOGY 121	Biology I	5
SOC 201	Intro To the Study Of Society	3
General Education Mathematics Course (MATH 118 recommended)		3
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
Required Program Core		
BIOLOGY 120	Terminology For Medical Careers	3
MCROBIO 233	General Microbiology	4
SURG TC 111	Intro To Surgical Technology	2
SURG TC 112	Principles & Practice for STs	3
SURG TC 113	Surgical Procedures I	4
SURG TC 114	Applied Surgical Procedures	4
SURG TC 116	Surgical Procedures II	3
SURG TC 118	Applied Surgical Procedures II	3
SURG TC 210	Surgical Procedures III	4
SURG TC 215	Career Readiness for STs	3
Required Work-Based Learning Courses		
SURG TC 212	Clinical Experience I	5
SURG TC 213	Clinical Experience II	9
Total Hours		69

Pathway

This is an **example course sequence** for students interested in earning an Associate in Applied Science in Surgical Technology. If this pathway is

followed as outlined, you will earn an Associate in Applied Science (AAS). It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

Course	Title	Hours
Semester 1		
BIOLOGY 120	Terminology For Medical Careers ¹	3
BIOLOGY 121	Biology I ¹	5
MATH 118	General Education Math ¹	4
Hours		12
Semester 2		
BIOLOGY 226	Human Structure and Function I ¹	4
Hours		4
Semester 3		
BIOLOGY 227	Human Structure and Function II	4
ENGLISH 101	Composition	3
SURG TC 111	Intro To Surgical Technology	2
SURG TC 112	Principles & Practice for STs	3
Hours		12
Semester 4		
MCROBIO 233	General Microbiology	4
SURG TC 113	Surgical Procedures I	4
SURG TC 114	Applied Surgical Procedures	4
Hours		12
Semester 5		
SURG TC 116	Surgical Procedures II	3
SURG TC 118	Applied Surgical Procedures II	3
Hours		6
Semester 6		
SOC 201	Intro To the Study Of Society	3
SURG TC 210	Surgical Procedures III	4
SURG TC 212	Clinical Experience I	5
Hours		12
Semester 7		
SURG TC 213	Clinical Experience II	9
SURG TC 215	Career Readiness for STs	3
Hours		12
Total Hours		70

¹

Program prerequisite to be completed prior to application for the Surgical Technology program.

Choose your courses with your College Advisor.

Program Admission Requirements

Applicants must:

1. Be admitted to Malcolm X College
2. Be at least 18 years of age
3. Completion of prerequisite courses must not be more than five years old and all prerequisite coursework must be completed with a grade of "C" or better. These courses are as follows:

Code	Title	Hours
Any college level Mathematics course (MATH 118 recommended) 3-4		
BIOLOGY 120	Terminology For Medical Careers	3

BIOLOGY 121	Biology I	5
BIOLOGY 226	Human Structure and Function I	4

4. Provide Malcolm X College with official college transcripts for any previous course work.
5. Have a minimum 2.5 College GPA
6. Complete the Program Admissions Application ([https://catalog.ccc.edu/file:///D:/Malcolm X/Students/Registration Help/RegistrationStudentHelpGuide11012018.pdf](https://catalog.ccc.edu/file:///D:/Malcolm%20X/Students/Registration%20Help/RegistrationStudentHelpGuide11012018.pdf))
7. All students are required to undergo a criminal background check. Students with a positive background check that contains disqualifying convictions may be prohibited from being placed at a clinical site, sitting for certification board examinations, and securing future employment. Students are responsible for the cost of performing the background check. The program's Clinical Coordinator will provide instructions to obtain the Background Check at the New Student Orientation session.

Students with a positive background check that contains convictions may be allowed to enter into the program, however, some convictions may prohibit them from entering the clinical site. These students will be unable to participate in the clinical externship course (resulting in a failing grade), sitting for certification board examinations, and securing future employment. Students with convictions are strongly encouraged to work to have any convictions expunged prior to entering the program. Students are responsible for the cost of performing the background check. The program's Clinical Coordinator will provide instructions to obtain the Background Check at the New Student Orientation session.

As defined by Illinois State Law (225ILCS46/25):

- All healthcare workers and student health care workers are required to undergo a criminal background check in order to work in a clinical setting. A student with a positive background check containing disqualifying conditions will not be allowed to enter the clinical portion of this program, thus preventing the student from obtaining mandated certification and/or licensure in Sterile Processing. Please contact the Program Director to discuss disqualifiers. The applicant is responsible for the cost of the background clearance. Prior to clinical placement, the student will be required to provide a cleared drug screen at their own cost.

8. Attend a consultation with members of the Surgical Technology program's staff and/or advisory board before acceptance into the program.
9. All college transcripts from colleges/universities attended outside City Colleges of Chicago are required to be sent to Malcolm X College Office of Registrar Services or mxregistrar@ccc.edu from the specific college/university. We do not have access to transcripts submitted to other City Colleges of Chicago.

For more information about admissions requirements and the application process, visit the program website (<https://www.ccc.edu/colleges/malcolm-x/departments/pages/surgical-sterile-processing-technologist.aspx>).

Sustainable Urban Horticulture, Advanced Certificate



College(s): DA

Program Code: 0828

The Horticulture (Sustainable Urban) certificate program is designed to provide students with cutting edge opportunities in the area of green technologies. Topics include green roofs, xeriscaping, rain gardens, and other new emerging technologies in the green industry.

This program is a hands-on, technical training in sustainable urban agriculture offered in partnership with the City Colleges of Chicago. Students receive a combination of classroom, lab, and field experience at the Arturo Velasquez Institute (AVI) greenhouse and at Windy City Harvest farm sites, complemented by a 14-week paid work experience at a Windy City Harvest (WCH) farm or partnering urban-farming operation.

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 136	Basic Horticulture	3
STTRDE 137	Managing Urban Green Space	3
STTRDE 138	Horticultural Plant Science	3
STTRDE 139	Urban Horticultural Floral	3
STTRDE 140	Greenhouse Crop Production	4
STTRDE 141	Soil Fertility and Assessment	3
STTRDE 142	Management of Plant and Animal Invasion	3
STTRDE 143	Sustainable Farming Practices	4
Required Work-Based Learning Courses		
STTRDE 144	Practicum/Internship	5
Total Hours		31

Pathway

This is an **example course sequence** for students interested in pursuing Horticulture (Sustainable Urban). It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate (AC).

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
STTRDE 136	Basic Horticulture	3
STTRDE 138	Horticultural Plant Science	3
Hours		6
Semester 2		
STTRDE 137	Managing Urban Green Space	3
STTRDE 140	Greenhouse Crop Production	4
STTRDE 141	Soil Fertility and Assessment	3
Hours		10
Semester 3		
STTRDE 139	Urban Horticultural Floral	3
STTRDE 142	Management of Plant and Animal Invasion	3
STTRDE 143	Sustainable Farming Practices	4
Hours		10
Semester 4		
STTRDE 144	Practicum/Internship	5
Hours		5
Total Hours		31

Choose your courses with your College Advisor.

The Windy City Harvest Apprenticeship program is offered annually from February through October, and applications for the program are due in the fall.

Eligibility requirements:

- At least a high school diploma or GED
- Eligible to enroll in the City Colleges of Chicago (no account holds)

Technology Specialist Endorsement, Basic Certificate



College(s): TR

Program Code: 0438

The Basic Certificate-Technology Specialist Endorsement is for undergraduate degree holders with an Illinois Professional Educator License. The Technology Specialist Endorsement prepares students to integrate technologies into educational settings.

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 250	Systems Analysis and Design	3
EDUC 226	Foundations of Educational Technology	3
EDUC 227	Digital Tools for Teaching, Learning & Assessment	3
EDUC 228	Designing Active Learning Environments	3
EDUC 229	Digital Media Literacy in Classrooms	3
EDUC 230	Internet Technology Fundamentals with Hardware, Software & Operating Systems	3
EDUC 231	Social Media in the K-12 Classroom	3
EDUC 232	Visionary Leadership in Educational Technology	3
EDUC 299	Special Topics Education	3
Total Hours		27

Pathway

This is an **example course sequence** for students interested in pursuing the Technology Specialist Endorsement Advanced Certificate (AC). It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Advanced Certificate.

Semester-by-Semester Plan

Course	Title	Hours
First Year		
Fall		
EDUC 226	Foundations of Educational Technology	3
CIS 250	Systems Analysis and Design	3
		Hours
		6
Spring		
EDUC 227	Digital Tools for Teaching, Learning & Assessment	3
EDUC 229	Digital Media Literacy in Classrooms	3
		Hours
		6
Summer		
EDUC 228	Designing Active Learning Environments	3
EDUC 231	Social Media in the K-12 Classroom	3
		Hours
		6
Second Year		
Fall		
EDUC 230	Internet Technology Fundamentals with Hardware, Software & Operating Systems	3
EDUC 299	Special Topics Education	3
		Hours
		6
Spring		
EDUC 232	Visionary Leadership in Educational Technology	3
		Hours
		3
Total Hours		27

Unarmed Security Guard, Basic Certificate



College(s): DA

Program Code: 0898

In this comprehensive 20-hour Unarmed Security Guard certificate program, students will cover officer training as an introduction to public security and basic patrol tactics.

Program Requirements

Code	Title	Hours
Required Program Core		
STTRDE 119	Unarmed Security Guard	2
Total Hours		2

Web Development, Advanced Certificate



College(s): DA, MX, OH, TR, WR

Program Code: 0155

The Advanced Certificate program in Web Development prepares students for entry-level positions as Web site editors, developers, or designers. Students acquire an understanding of programming principles and languages incorporated in Web pages, and become proficient in HTML and related technologies. This program will also be useful to individuals whose job duties have expanded to include web site responsibilities or who wish to develop web pages for their businesses.

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 113	Human-Computer Interaction	3
CIS 114	Mobile Application Development	3
CIS 116	Operating System I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 281	Web Development III/Server Side Programming	3
CIS 282	Web Development IV/Web Database Integration	3
NET TEC 101	Client-Server Database I	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in Web Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will

earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Web Development.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
Hours		9
Semester 2		
CIS 113	Human-Computer Interaction	3
CIS 182	Web Development II/Client Side Scripting	3
NET TEC 101	Client-Server Database I	3
CIS 144	Java Object Oriented Programming I	3
Hours		12
Semester 3		
CIS 114	Mobile Application Development	3
CIS 281	Web Development III/Server Side Programming	3
Hours		6
Semester 4		
CIS 282	Web Development IV/Web Database Integration	3
Hours		3
Total Hours		30

Choose your courses with your College Advisor.

Web Development, Associate in Applied Science



College(s): DA, MX, OH, WR

Program Code: 0409

The Web Development Associate in Applied Science program prepares students for entry-level positions in website design, development, and administration. Students will learn various programming principles, languages, and web technologies to effectively create and deploy dynamic websites. Students will also learn how to integrate web and database servers to increase the productivity and interactivity of a website. Potential job opportunities for students in this program include web designer, web developer, e-commerce manager, web technician, or web server administrator.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher Mathematics)	4
	Fine Arts or Humanities course	3
	Social and Behavioral Sciences course	3
	Physical Sciences or Life Sciences course	3
Required Program Core		
CIS 101	Computer Science 101	3
CIS 113	Human-Computer Interaction	3
CIS 114	Mobile Application Development	3
CIS 116	Operating System I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 260	Computer Information Systems Field Project	3
CIS 281	Web Development III/Server Side Programming	3
CIS 282	Web Development IV/Web Database Integration	3

BUSINES 111	Introduction To Business	3
NET TEC 101	Client-Server Database I	3
Program Electives		
Students must complete a minimum of 9 credit hours in the subjects		9
Computer Information Systems (0032), Networking Technologies (0165), or Cybersecurity (0162).		
Total Hours		61

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example course sequence** for students interested in Web Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science Degree (AAS) in Web Development. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

The Web Development AAS program prepares students for entry-level positions in website design, development, and administration. Students will learn various programming principles, languages, and web technologies to effectively create and deploy dynamic websites. Students will also learn how to integrate web and database servers to increase the productivity and interactivity of a website. Potential job opportunities for students in this program include web designer, web developer, e-commerce manager, web technician, or web server administrator.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
	Social and Behavioral Sciences course ¹	3
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
	Hours	15
Semester 2		
MATH 118	General Education Math (or higher Mathematics) ¹	4
CIS 113	Human-Computer Interaction	3
CIS 144	Java Object Oriented Programming I	3
CIS 182	Web Development II/Client Side Scripting	3
NET TEC 101	Client-Server Database I	3
	Hours	16
Semester 3		
	Fine Arts & Humanities course (HD) ¹	3
BUSINES 111	Introduction To Business	3
CIS 114	Mobile Application Development	3
CIS 281	Web Development III/Server Side Programming	3
	Select one of the following:	3
	CIS 103 Fundamentals of Programming ²	
	Program Elective (p. 315) ²	
	Hours	15
Semester 4		
	Physical Sciences or Life Sciences course ¹	3
CIS 282	Web Development IV/Web Database Integration	3
CIS 260	Computer Information Systems Field Project	3
	Program Elective (p. 315) ²	3
	Program Elective (p. 315) ²	3
	Hours	15
	Total Hours	61

1

General Education Requirement

2

Program Elective (p. 315)

Program Elective

Code	Title	Hours
CIS 118	Information Technology Problem Solving	3
CIS 120	Introduction to Computer Applications	3
CIS 250	Systems Analysis and Design	3
	Other recommended CIS, COMPSFI, or Networking Technology courses	

Choose your courses with your College Advisor.

Web Development, Basic Certificate



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0152

The Web Development BC program prepares students for entry-level positions in website design and development. Students will learn various programming principles, languages and web technologies to effectively create and deploy dynamic websites. Students will also learn how to integrate web and database servers to increase the productivity and interactivity of a website. Potential job opportunities for students in this program include web designer, web developer, e-commerce manager, or web technician.



Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming ¹	3
or CIS 144	Java Object Oriented Programming I	
CIS 113	Human-Computer Interaction	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
Total Hours		18

1

Students who intend to complete the Advanced Certificate and/or Associate in Applied Science degree in Web Development should take CIS 144 Java Object Oriented Programming I instead of CIS 103 Fundamentals of Programming, as CIS 144 Java Object Oriented Programming I is required for both the AC and AAS degree.

Pathway

This is an **example course sequence** for students interested in Web Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Web Development.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
Hours		9
Semester 2		
CIS 113	Human-Computer Interaction	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 144	Java Object Oriented Programming I ¹	3
or CIS 103	or Fundamentals of Programming	
Hours		9
Total Hours		18

1

Students in the Basic Certificate program may take CIS 103 Fundamentals of Programming or CIS 144 Java Object Oriented Programming I, but should take CIS 144 Java Object Oriented Programming I if they intend to complete the Advanced Certificate and/or Associate in Applied Science degree in Web Development, as CIS 144 Java Object Oriented Programming I is required for both the AC and AAS degree.

Choose your courses with your College Advisor.

Welding Engineering Technology, Advanced Certificate



College(s): DA

Program Code: 0450

This program is for students looking to work within the exciting field of Welding Engineering Technology. Students will learn welding skills including MIG, TIG, metal cutting techniques and small machine operation related welding in addition to weld blueprint reading and related processes. CNC fabrication equipment commonly associated with welding fabrication will also be introduced. Students will be performing hands on welding and completing projects throughout this program to develop hands on skills that employers are looking for.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 154	Welding II GTAW	3
340MFGT 210	Automated Fabrication I	3
340MFGT 251	Welding III-Advanced Welding	3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing

Technology and CNC Technology and an Advanced Certificate (AC) in Welding Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 153	Welding I GMAW	3
		Hours
		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 154	Welding II GTAW	3
340MFGT 210	Automated Fabrication I	3
		Hours
		12
Semester 3		
340MFGT 251	Welding III-Advanced Welding	3
		Hours
		3
		Total Hours
		30

Welding Engineering Technology, Associate in Applied Science



College(s): DA

Program Code: 0451

This program is for students looking to work within the exciting field of Welding Engineering Technology. Students will learn welding skills including MIG, TIG, Cutting and small machine operation related welding in addition to weld inspection techniques and processes. CNC fabrication equipment commonly associated with welding fabrication will also be introduced and utilized in projects. Students will learn about materials and their selection and processing applications. Students will be performing hands on welding and fabrication projects throughout this program to develop skills that employers are looking for and will allow students to succeed in careers in Welding Engineering Technology or if they choose to pursue further studies such as Bachelor's Degree programs in related fields.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
MATH 140	College Algebra	4
Select three additional general education courses from any of the following categories: ¹		
Fine Arts & Humanities		
Physical Sciences or Life Sciences		
Social and Behavioral Sciences		
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3

340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 154	Welding II GTAW	3
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 188	Industrial Electricity I	3
340MFGT 210	Automated Fabrication I	3
340MFGT 211	AUTOMATED FABRICATION II	3
340MFGT 251	Welding III-Advanced Welding	3
340MFGT 252	Welding IV - Inspection	3
340MFGT 274	Materials II - Testing and Analysis	3
Total Hours		61

1

At least one course must meet the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in pursuing Welding Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology, and an Advanced Certificate (AC) and Associate in Applied Science (AAS) in Welding Engineering Technology.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3

340MFGT 153	Welding I GMAW	3
	Hours	15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 154	Welding II GTAW	3
340MFGT 188	Industrial Electricity I	3
ENGLISH 101	Composition	3
	Hours	15
Semester 3		
340MFGT 171	Automated Metrology-Quality Assurance	3
340MFGT 210	Automated Fabrication I	3
340MFGT 251	Welding III-Advanced Welding	3
MATH 140	College Algebra	4
Social and Behavioral Sciences course (HD)		3
	Hours	16
Semester 4		
340MFGT 211	AUTOMATED FABRICATION II	3
340MFGT 252	Welding IV - Inspection	3
340MFGT 274	Materials II - Testing and Analysis	3
Fine Arts & Humanities course (HD)		3
Physical Sciences or Life Sciences course		3
	Hours	15
	Total Hours	61

Welding, Basic Certificate

College(s): DA*

Program Code: 0765

**As of Summer 2021, this program is not accepting new students. Please refer to CCC's other Manufacturing (https://catalog.ccc.edu/programs/#filter=filter_24) offerings.*

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 139	Print Requirements-Quality Assurance	3
340MFGT 141	Manufacturing Materials & Processes	3
340MFGT 151	Introduction to Welding	3
340MFGT 152	Intermediate Welding	3
340MFGT 191	Industrial Electricity	4
Total Hours		16

TRANSFER PATHWAYS

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Institution-specific transfer guides and agreements can be found on CCC's transfer site (<https://pages.ccc.edu/apply/transfer/>).

A

- Accounting, Associate in Arts (p. 322)
- Aerospace Engineering, Associate in Engineering Science (p. 324)
- Agricultural Engineering, Associate in Engineering Science (p. 325)
- Architectural Engineering, Associate in Engineering Science (p. 326)

B

- Bioengineering, Associate in Engineering Science (p. 327)
- Biology Education, Associate in Science (p. 328)
- Biology, Associate in Science (p. 330)
- Biomedical Engineering, Associate in Engineering Science (p. 332)
- Business/Economics, Associate in Arts (p. 333)
- Business/Finance, Associate in Arts (p. 335)

C

- Chemical Engineering, Associate in Engineering Science (p. 337)
- Chemistry Education, Associate in Science (p. 338)
- Chemistry, Associate in General Studies (p. 340)
- Child Development: Early Childhood, Associate in Arts (p. 341)
- Civil Engineering, Associate in Engineering Science (p. 343)
- Communications, Associate in Arts (p. 344)
- Comparative Religion, Associate in Arts (p. 346)
- Computer Engineering, Associate in Engineering Science (p. 348)
- Computer Science, Associate in Engineering Science (p. 349)
- Computer Science, Associate in Science (p. 350)
- Criminal Justice, Associate in Arts (p. 351)
- Cybersecurity Engineering, Associate in Engineering Science (p. 352)

D

- Dance, Associate in Arts (p. 353)

E

- Electrical Engineering, Associate in Engineering Science (p. 354)
- Elementary Education, Associate in Arts (p. 355)
- Engineering Mechanics, Associate in Engineering Science (p. 357)
- Engineering, Associate in Engineering Science (p. 358)
- English Education, Associate in Arts (p. 360)
- English, Associate in Arts (p. 362)
- Environmental Biology, Associate in Science (p. 364)
- Environmental Engineering, Associate in Engineering Science (p. 366)

F

- French Education, Associate in Arts (p. 367)

G

- Gender, Women's, and Sexuality Studies, Associate in Arts (p. 369)
- General Science Education, Associate in Science (p. 371)
- Geology, Earth, and Environmental Science, Associate in Science (p. 373)

H

- History, Associate in Arts (p. 375)
- Human Development and Family Studies, Associate in Arts (p. 377)
- Human Geography, Associate in Arts (p. 378)

I

- Industrial Engineering, Associate in Engineering Science (p. 380)
- Insurance, Associate in Arts (p. 381)
- International Studies, Associate in Arts (p. 382)

J

- Journalism, Associate in Arts (p. 384)

L

- Latin American and Latin@ Studies, Associate in Arts (p. 386)

M

- Materials Science and Engineering, Associate in Engineering Science (p. 388)
- Mathematics Education, Associate in Science (p. 389)
- Mathematics, Associate in Science (p. 391)
- Mechanical Engineering, Associate in Engineering Science (p. 393)
- Music (General), Associate in Arts (p. 394)

N

- Nuclear, Plasma, Radiological Engineering, Associate in Engineering Science (p. 396)

P

- Philosophy, Associate in Arts (p. 397)
- Photography, Associate in Arts (p. 399)
- Physical Education, Associate in Arts (p. 401)
- Physics Education, Associate in Science (p. 403)
- Physics, Associate in Science (p. 405)
- Political Science, Associate in Arts (p. 406)
- Pre-Aviation, Associate in Science (p. 408)
- Psychology, Associate in Arts (p. 409)

S

- Social Science Education, Associate in Arts (p. 411)
- Social Work, Associate in Arts (p. 413)

- Sociology, Associate in Arts (p. 414)
- Spanish Education, Associate in Arts (p. 416)
- Special Education, Associate in Arts (p. 418)
- Systems Engineering and Design, Associate in Engineering Science (p. 420)

T

- Theater Art, Associate in Arts (p. 421)

U

- Urban Studies, Associate in Arts (p. 423)

W

- Web Development, Associate in Science (p. 424)
- World Languages, Associate in Arts (p. 425)

Accounting, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Accounting. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts degree. Students completing the below pathway can also earn the Accounting Clerk Basic Certificate by taking BUSINES 284 Business Communications as an additional course.

An Associate in Arts degree with a concentration in accounting provides students with theoretical and practical skills needed for academic advancement and industry employment within the financial services industry and the general business and professional services area. Specifically, this program is targeting current employees working in the financial sector or students interested in obtaining an entry-level position within the accounting industry.

At least one course must satisfy the Human Diversity (HD) requirement.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

Select one of the following:		4
MATH 140	College Algebra ¹	
MATH 204	Calculus For Business & Social Sciences ¹	
MATH 207	Calculus & Analytic Geometry I ¹	
ECON 201	Principles Of Economics I ¹	3
BUSINES 111	Introduction To Business ^{2,3}	3
Fine Arts & Humanities course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
BUSINES 181	Financial Accounting ^{2,3}	4
BUSINES 213	Data Visualization and Presentation for Business ^{2,3}	3
ECON 202	Principles Of Economics II ¹	3
Hours		16
Semester 3		
BUSINES 182	Managerial Accounting ^{2,3}	4
Physical Sciences course ¹		4
Humanities course ¹		3
Social and Behavioral Sciences course ¹		3
Hours		14
Semester 4		
BUSINES 183	Payroll Accounting ^{2,3}	3
BUSINES 250	Computerized Accounting Systems ^{2,3}	3
Life Sciences course ¹		3
Fine Arts course ¹		3

Pathway Elective (p. 323) ^{2,3}	3
Hours	15
Total Hours	61

1

General Education Requirement

2

Pathway Elective (p. 323)

3

Requirement for in Accounting Clerk Basic Certificate, along with
BUSINES 284 Business Communications as an additional course

Pathway Elective

Code	Title	Hours
BUSINES 203	Intro Cost Accounting	3
BUSINES 208	Federal Income Tax	3
BUSINES 211	Business Law I	3
BUSINES 214	The Legal & Social Environment of Business	3
BUSINES 215	Corporate and Entity Federal Income Tax	3
BUSINES 217	Nonprofit Accounting	3

Choose your courses with your College Advisor.

Aerospace Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142 or C++ Object Oriented Programming I		
PHYSICS 215	Statics	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts course or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics	3
ENGR 225	Introduction to Thermodynamics	3

Pathway Elective (p. 324) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 324)

Pathway Electives

Code	Title	Hours
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5
MATH 212	Linear Algebra	3
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3

Agricultural Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts course or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3
ENGR 225	Introduction to Thermodynamics ³	3

Pathway Elective (p. 325) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 325)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Architectural Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts course or Humanities course ^{1,2}		3
PHYSICS 217	Mechanics Of Materials	3
ENGR 225	Introduction to Thermodynamics	3

Pathway Elective (p. 326) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 326)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 217	Mechanics Of Materials	3

Bioengineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
Pathway Elective (p. 327) ³		3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts course or Humanities course ^{1,2}		3
BIOLOGY 121	Biology I ³	5

ENGR 225	Introduction to Thermodynamics ³	3
Hours		14
Total Hours		64

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 327)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
BIOLOGY 121	Biology I	5
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3

Biology Education, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The Biology Education pathway begins your preparation to teach biology to high school students. Biology teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Biology endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in science education.

This is an **example course sequence** for students interested in pursuing Biology Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
BIOLOGY 121	Biology I ¹	5
EDUC 101	Introduction To Education ²	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
BIOLOGY 122	Biology II ¹	5
MATH 208	Calculus & Analytic Geometry II (or higher) ¹	5
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
Hours		16
Semester 3		
Fine Arts course ¹		3
Select one of the following:		3
Earth Science course ²		
EDUC 203	Educational Psychology ²	
CHEM 201	General Chemistry I ¹	5
ANTHRO 202	Cultural Anthropology (HD) ¹	3
Hours		14
Semester 4		
Humanities course ¹		3
POL SCI 201	The National Government ²	3
SPEECH 101	Fundamentals of Speech Communication ¹	3

CHEM 203	General Chemistry II ²	5
	Hours	14
	Total Hours	60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Biology, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

When you think of life on earth, your first thoughts are probably about familiar animals. That is only a small sample of the types of life on our planet, which include plants, bacteria, fungi, and animals in a vast array of body forms and types. Biology is the study of life, individual organisms, their communities, and the systems, cells, and processes that make up living matter. With an AS degree you can transfer to a four-year college as a junior, obtain your bachelor's degree and work in fields like biochemistry, genetics, marine biology, zoology, ecology and much more.

This is an **example course sequence** for students interested in pursuing Biology. This pathway does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
PSYCH 201	General Psychology ¹	3
MATH 140	College Algebra ¹	4
BIOLOGY 121	Biology I ¹	5
Hours		15

Semester 2

ENGLISH 102	Composition ¹	3
BIOLOGY 122	Biology II ¹	5
SPEECH 101	Fundamentals of Speech Communication ¹	3
Social and Behavioral Sciences course (HD) ¹		3
Hours		14

Semester 3

Pathway Elective (p. 330) ²		4
MATH 125	Introductory Statistics ¹	4
Humanities course ¹		3
CHEM 201	General Chemistry I ¹	5
Hours		16

Semester 4

Fine Arts course ¹		3
Pathway Elective (p. 330) ²		4
Pathway Elective (p. 330) ²		4
CHEM 203	General Chemistry II ²	5
Hours		16
Total Hours		61

¹

General Education Requirement

²

Pathway Elective (p. 330)

Pathway Electives

Code	Title	Hours
BIOLOGY 122	Biology II	5
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
BIOLOGY 241	Genetics	3-4
BIOLOGY 242	Evolution	2-3
BIOLOGY 251	Molecular Biology I	4
BOTANY 201	General Botany I	4
CHEM 121	Basic Chemistry I ¹	4
CHEM 203	General Chemistry II	5

CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CHEM 212	Survey of Organic & Biochemistry	4
Select one of the following:		6-8
MATH 140 & MATH 141	College Algebra and Plane Trigonometry	
MATH 143	Pre Calculus ²	
MATH 207	Calculus & Analytic Geometry I	5
MATH 208	Calculus & Analytic Geometry II	5
MCROBIO 233	General Microbiology	4
PHYSICS 221	Mechanics, Waves, and Heat	5
PHYSICS 222	Electricity, Light and Modern Physics	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

1

CHEM 121 Basic Chemistry I should only be taken if the student needs it for admittance into CHEM 201 General Chemistry I.

2

MATH 143 Pre Calculus should only be taken if the student needs it for admittance into MATH 207 Calculus & Analytic Geometry I.

Choose your courses with your College Advisor.

Biomedical Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
Pathway Elective (p. 332) ³		4
Hours		17
Semester 4		
MATH 210	Differential Equations	3
Fine Arts course or Humanities course ^{1,2}		3
BIOLOGY 115	Human Biology ³	4

Pathway Elective (p. 332) ³	3
Hours	13
Total Hours	64

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 332)

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3

Business/Economics, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This area of study combines business classes with courses in economics. An Associate in Arts with a business emphasis prepares you to transfer to a four-year university to earn a Bachelor's degree that opens the door to a career in business, management, marketing, accounting, investment banking, stock market trading and lots more. This pathway will supply you with basic tools you need to meet the demands of the workforce economy.

This is an **example course sequence** for students interested in pursuing Business. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you earn your associate degree, which will increase your chances of transfer to bachelor's-level programs. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 140	College Algebra ¹	4
Fine Arts course ¹		3
ECON 201	Principles Of Economics I ¹	3

BUSINES 181	Financial Accounting ²	4
		Hours
Semester 2		
ENGLISH 102	Composition ¹	3
BUSINES 182	Managerial Accounting ²	4
SPEECH 101	Fundamentals of Speech Communication ¹	3
Mathematics Elective ²		4
ECON 202	Principles Of Economics II ¹	3
		Hours
Semester 3		
PHIL 105	Logic ¹	3
Physical Sciences course with lab ¹		4
Mathematics Elective ²		4
Select one of the following:		3
ENGLISH 105	Business Writing ²	
BUSINES 231	Marketing ²	
BUSINES 269	Principles Of Management ²	
		Hours
Semester 4		
History course ¹		3
Fine Arts & Humanities course (HD) ¹		3
Life Sciences course ¹		4
Mathematics Elective ²		4
		Hours
		Total Hours
		62

1

General Education Requirement

2

Pathway Elective (p. 333)

Pathway Electives

Code	Title	Hours
MATH 125	Introductory Statistics	4
MATH 141	Plane Trigonometry	3

MATH 143	Pre Calculus	6
MATH 144	Finite Mathematics	4
MATH 204	Calculus For Business & Social Sciences	4-5
MATH 207	Calculus & Analytic Geometry I	5

Choose your courses with your College Advisor.

Business/Finance, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an example course sequence for students interested in pursuing Business/Finance. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you earn your associate degree, which will increase your chances of transfer to bachelor's-level programs. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
Select one of the following:		4
MATH 140	College Algebra ¹	
MATH 204	Calculus For Business & Social Sciences ¹	
MATH 207	Calculus & Analytic Geometry I ¹	
Business Elective ²		3
BUSINES 111	Introduction To Business ²	3
Fine Arts course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3

Humanities course ¹		3
BUSINES 181	Financial Accounting ²	4
History course ¹		3
Business Elective ²		3
Hours		16
Semester 3		
BUSINES 182	Managerial Accounting ²	4
BUSINES 241	Introduction To Finance ²	3
Life Sciences course ¹		3
Fine Arts course ¹		3
ECON 201	Principles Of Economics I ¹	3
Hours		16
Semester 4		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Physical Sciences course ¹		4
ECON 202	Principles Of Economics II ¹	3
Business Elective ²		3
Hours		13
Total Hours		61

1

General Education Requirement

2

Pathway Elective (p. 335)

Pathway Elective

Code	Title	Hours
BUSINES 141	Business Mathematics	3
BUSINES 213	Data Visualization and Presentation for Business	3
BUSINES 214	The Legal & Social Environment of Business	3
BUSINES 216	Entrepreneurship	3
BUSINES 237	Selling	3

BUSINES 244	Personal Finance	3
CIS 123	Microcomputer Spreadsheets	3

Choose your courses with your College Advisor.

Chemical Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ^{1,2}	5
Social and Behavioral Sciences ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
MATH 210	Differential Equations ³	3
Hours		16
Semester 4		
Fine Arts or Humanities course ^{1,2}		3
CHEM 205	Organic Chemistry I	6
ENGR 225	Introduction to Thermodynamics	3

Pathway Elective (p. 337) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 337)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3

Chemistry Education, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The Chemistry Education pathway begins your preparation to teach chemistry to high school students. Chemistry teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with an Chemistry endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in science education.

This is an **example course sequence** for students interested in pursuing Chemistry Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
EDUC 101	Introduction To Education ²	3
	Hours	16
Semester 2		
ENGLISH 102	Composition ¹	3
ANTHRO 202	Cultural Anthropology (HD) ¹	3
CHEM 203	General Chemistry II ¹	5
MATH 208	Calculus & Analytic Geometry II (or higher) ¹	5
	Hours	16
Semester 3		
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
	Fine Arts course ¹	3
CHEM 205	Organic Chemistry I ¹	6
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
	Hours	16
Semester 4		
	Humanities course ¹	3
EDUC 203	Educational Psychology ²	3
SPEECH 101	Fundamentals of Speech Communication ¹	3

POL SCI 201	The National Government ¹	3
	Hours	12
	Total Hours	60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Chemistry, Associate in General Studies



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0203

Pathway

When you think of chemistry, you might think of atoms and bonds, bubbling beakers and smoking test tubes. In reality, chemistry students use mathematics, theory, and experimentation to study the matter that makes up physical substances. People working in the field of chemistry make valuable contributions in a range of fields, including medicine, biology, psychology, and geology. Follow the chemistry pathway and you'll explore many different topics, from the chemical basis for life to the environmental problems caused by chemicals. The chemistry pathway leads to an associate degree which will allow you to transfer as a junior to a four-year college to complete your bachelor's degree. You might become a pharmacist, scientist, forensics specialist, food scientist, dentist, materials engineer or hazardous materials specialist.

This is an **example course sequence** for students interested in earning a degree in Chemistry. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in General Studies (AGS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CHEM 201	General Chemistry I ¹	5
MATH 207	Calculus & Analytic Geometry I ¹	5

Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ²	3
CHEM 203	General Chemistry II ²	5
MATH 208	Calculus & Analytic Geometry II ²	5
Fine Arts & Humanities course ¹		3
Hours		16
Semester 3		
CHEM 205	Organic Chemistry I ²	6
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion ²	5
Social and Behavioral Sciences course ¹		3
Hours		14
Semester 4		
CHEM 207	Organic Chemistry II ²	6
PHYSICS 236	Engineering Physics II: Electricity & Magnetism ^{2,3}	5
Fine Arts & Humanities course ¹		3
Hours		14
Total Hours		60

¹

General Education Requirement

²

Pathway Elective

³

Students interested in a Bachelor of Arts in Chemistry rather than a BS should substitute PHYSICS 221 Mechanics, Waves, and Heat/PHYSICS 222 Electricity, Light and Modern Physics for PHYSICS 235 Engineering Physics I: Mechanics & Wave Motion/PHYSICS 236 Engineering Physics II: Electricity & Magnetism. Students interested in a Bachelor of Science in Chemistry should take MATH 209 Calculus & Analytic Geometry III.

Choose your courses with your College Advisor.

Child Development: Early Childhood, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Are you interested in learning about how children learn, grow and thrive? Does the idea of joining the ranks of in-demand child care professionals excite you? If yes, then the Child Development Early Childhood pathway may be right for you. As a Child Development student at City Colleges you will learn about children's social, emotional, and physical development, and the theories and real world skills required to teach children from birth to age 8.

There are a variety of education pathways students can explore. Outlined here are the steps we suggest you take to earn an Associate in Arts degree with a built-in Basic Certificate in Child Development: Pre-school Education. You can then transfer to a four-year institution. Early Childhood teachers at public schools in Illinois are required to earn a bachelor's degree from an accredited College of Education and an Early Childhood Professional Educator license from the Illinois State Board of Education. If you are looking for shorter-term degree options, be sure to ask your College Advisor about City the Colleges' Advanced Certificate and Associate in Applied Science degrees in Early Childhood Education.

This is an **example course sequence** for students interested in pursuing child development. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree and a Basic Certificate (BC) in Child Development: Pre-school Education. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level

programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 121	Math For Elementary Teachers I ¹	4
Select one of the following:		
PSYCH 201	General Psychology ¹	
ANTHRO 202	Cultural Anthropology ¹	
Social and Behavioral Sciences course ¹		
LIT 130	Children's Literature ¹	3
CHLD DV 120	Intro To Early Childhood Education Group Care ^{2,3}	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3

EDUC 101	Introduction To Education ²	3
Humanities course (HD) ¹		3
HISTORY 111	History of American People To 1865 ¹	3
or HISTORY 112	or History of American People From 1865	
CHLD DV 107	Health Safety And Nutrition ^{2,3}	3
Hours		15
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Life Sciences course ¹		4
MATH 122	Math For Elementary Teachers II ²	4
CHLD DV 101	Human Growth & Development I ^{2,3}	4
Hours		15
Semester 4		
POL SCI 201	The National Government ¹	3
Physical Sciences course ¹		4
CHLD DV 149	Creative Activities For Young Children ^{2,3}	3
CHLD DV 262	Child, Family & Community Relations ^{2,3}	3
Fine Arts course ¹		3
Hours		16
Total Hours		62

1

General Education Requirement

2

Pathway Elective

3

Requirement for Basic Certificate in Child Development: Pre-School Education

Choose your courses with your College Advisor.

Civil Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3

PHYSICS 217	Mechanics Of Materials ³	3
Pathway Elective (p. 343) ³		
Hours		12
Total Hours		62

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 343)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 225	Introduction to Thermodynamics	3
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Communications, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Communications. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math (or higher Mathematics course) ¹ or Introductory Statistics	4
PSYCH 201	General Psychology ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Fine Arts course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3

Physical Sciences course ¹	3
Humanities course ¹	3
Elective	3
Pathway Elective (p. 344) ²	3
Hours	
	15

Semester 3	
Life Sciences course ¹	4
Pathway Elective (p. 344) ²	3
Elective	3
Elective	3
Social and Behavioral Sciences course ¹	3
Hours	
	16

Semester 4	
Social and Behavioral Sciences course ¹	3
Fine Arts & Humanities course ¹	3
Elective (HD)	3
Pathway Elective (p. 344) ²	3
Pathway Elective (p. 344) ²	3
Hours	
	15
Total Hours	
	62

1

General Education Requirement

2

Pathway Elective (p. 344)

Pathway Electives

Code	Title	Hours
ENGLISH 152	Intro To Mass Communication	3
SPEECH 102	Public Speaking	3
SPEECH 104	Group Communication	3
SPEECH 143	Training The Speaking Voice	3
SPEECH 144	Oral Reading & Interpretation	3
SPEECH 160	Business & Professional Speech	3
SPEECH 202	Interpersonal Communication	3
SPEECH 206	Argumentation	3

SPEECH 243 Speech For Teachers 3

World Language courses

Choose your courses with your College Advisor.

Comparative Religion, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

If you are fascinated by religious questions and traditions, and enjoy exploring many points of view, consider this area of study. In jobs that require relating to others, reaching out to them, building bridges, or incorporating many perspectives at once, knowledge of religion will provide an excellent foundation.

This is an **example course sequence** for students interested in pursuing Comparative Religion. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. World Language courses are included for students who are transferring to a four-year institution with a World Languages requirement. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
Fine Arts course ¹		3
Humanities course ¹		3
Pathway Elective (p. 347) ²		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Pathway Elective (p. 347) ²		3
Physical Sciences course ¹		4
Fine Arts & Humanities course ¹		3
Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 3		
Pathway Elective (p. 347) ²		3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Social and Behavioral Sciences course ¹		3
World Language course ²		4
Hours		13
Semester 4		
Life Sciences course ¹		4
World Language course ²		4
Social and Behavioral Sciences course ¹		3
Pathway Elective (p. 347) ²		3
Pathway Elective (p. 347) ²		3
Hours		17
Total Hours		62

¹ General Education Requirement

² Pathway Elective (p. 347)

Pathway Electives

Code	Title	Hours
ANTHRO 202	Cultural Anthropology (HD)	3
PHIL 108	Philosophy Of Religion	3
RELIGN 101	Introduction To Religion	3
RELIGN 102	The Bible - Hebrew Old Test	3
RELIGN 103	The Bible - New Testament	3
RELIGN 104	Islamic Scriptures: The Qur'an	3
RELIGN 106	Comparative Religion I/Eastern Religion (HD)	3
RELIGN 107	Com Rel II Western Religion (HD)	3
RELIGN 108	Religion And Psychology	3
SOC 110	Religion And Society	3

Choose your courses with your College Advisor.

Computer Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
MATH 207	Calculus & Analytic Geometry I	5
CHEM 201	General Chemistry I	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203 or BIOLOGY 115	General Chemistry II ³ or Human Biology	4-5
Hours		17-18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
Pathway Elective (p. 348) ³		3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
CIS 242 or CIS 244	C++ Object Oriented Programming II ³ or Java Object Oriented Programming II	3

MATH 146	Discrete Mathematics ³	4
Pathway Elective (p. 348) ³		3
Hours		16
Total Hours		65-66

1

General Education course

2

One course must meet the Human Diversity (HD) requirement

3

Pathway Elective (p. 348)

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Computer Science, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203 or BIOLOGY 115	General Chemistry II ³ or Human Biology	4-5
Hours		17-18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
Pathway Elective (p. 349) ³		3
Hours		16

Semester 4

MATH 210	Differential Equations	3
Fine Arts or Humanities course ¹		3
CIS 242 or CIS 244	C++ Object Oriented Programming II ³ or Java Object Oriented Programming II	3
MATH 146	Discrete Mathematics ³	4
Pathway Elective (p. 349) ³		3
Hours		16
Total Hours		65-66

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

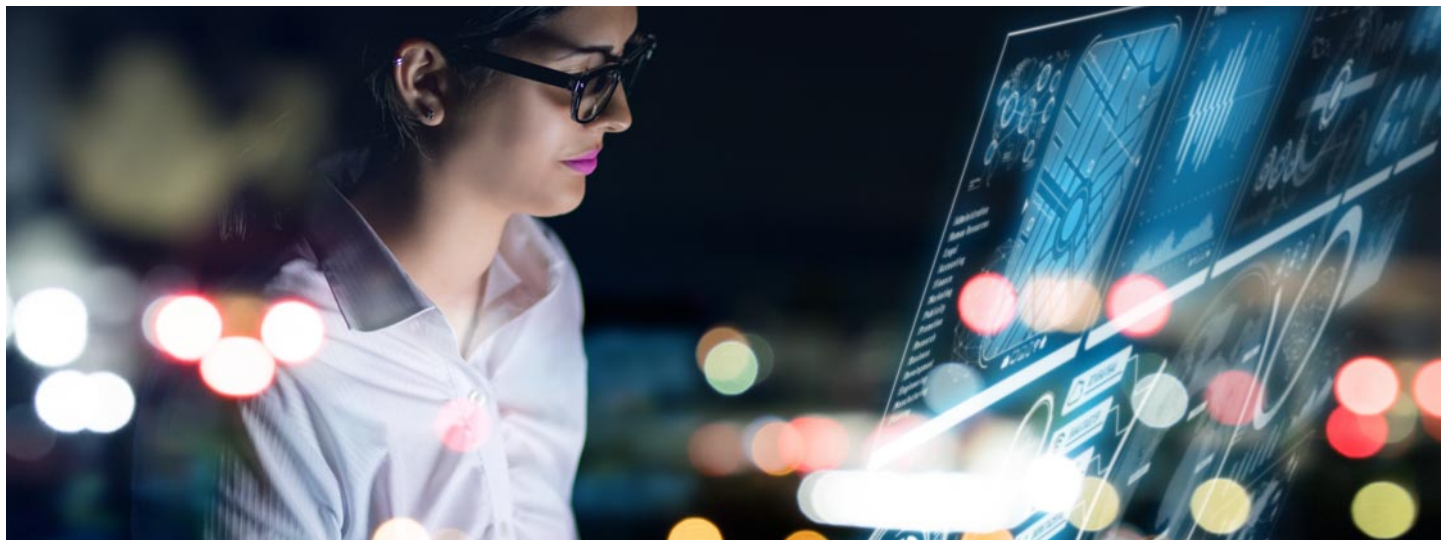
3

Pathway Elective (p. 349)

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3

Computer Science, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

This is an **example course sequence** for students interested in pursuing Computer Science. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CIS 101	Computer Science 101 ²	3
CIS 116 or CIS 118	Operating System I ² or Information Technology Problem Solving	3
MATH 146	Discrete Mathematics ^{1,3}	4
Humanities course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Social and Behavioral Sciences course ¹		3
CIS 103	Fundamentals of Programming ²	3
Physical Sciences course ¹		3

CIS 144	Java Object Oriented Programming I ²	3
Hours		15
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Social and Behavioral Sciences course (HD) ¹		3
MATH 125 or MATH 207	Introductory Statistics ¹ or Calculus & Analytic Geometry I	4-5
CIS 142	C++ Object Oriented Programming I ²	3
CIS 244	Java Object Oriented Programming II ²	3
Hours		16-17
Semester 4		
Life Sciences course ¹		4
Physical Sciences or Life Sciences course ¹		3
Fine Arts course ¹		3
CIS 260	Computer Information Systems Field Project ²	3
Hours		13
Total Hours		60-61

- 1 General Education Requirement
 - 2 Pathway Elective
 - 3 ALEKS-based placement or prerequisite: MATH 140 College Algebra
- Choose your courses with your College Advisor.

Criminal Justice, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Criminal Justice. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
Fine Arts course ¹		3
PSYCH 201	General Psychology ¹	3
CRM JUS 102	Administration of Criminal Justice ²	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Physical Sciences course ¹		4

SPEECH 101	Fundamentals of Speech Communication ¹	3
SOC 201	Intro To the Study Of Society ¹	3
CRM JUS 114	Administration of Juvenile Justice ²	3
Hours		16
Semester 3		
Life Sciences course ¹		4
CRM JUS 155	Introduction To Corrections ²	3
Fine Arts & Humanities course ¹		3
World Languages ²		4
Hours		14
Semester 4		
PHIL 107	Ethics ¹	3
Social and Behavioral Sciences course (HD) ¹		3
CRM JUS 250	Introduction To Criminology ²	3
World Languages ²		4
Elective ²		3
Hours		16
Total Hours		62

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Cybersecurity Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203 or BIOLOGY 115	General Chemistry II ³ or Human Biology	4-5
Hours		17-18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
MATH 146	Discrete Mathematics	4
Hours		17
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
CIS 242 or CIS 244	C++ Object Oriented Programming II ³ or Java Object Oriented Programming II	3

MATH 212	Linear Algebra	3
Pathway Elective (p. 352) ³		3
Hours		15
Total Hours		65-66

¹

General Education course

²

One course must satisfy the Human Diversity (HD) requirement

³

Pathway Elective (p. 352)

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Dance, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

An Associate in Arts with a focus in Dance provides students with the necessary skills and vocabulary to succeed in a multitude of performing arts careers, such as dancer, choreographer, dance educator, personal trainer, physical therapist, and more.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Physical Sciences or Life Sciences ¹		4
Fine Arts & Humanities or Theater ¹		3
Social and Behavioral Sciences ¹		3
Hours		17
Semester 2		
ENGLISH 102	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Physical Sciences or Life Sciences course ¹		3
FIN ART 112	Dance Appreciation ¹	3
Studio Dance course ²		2
Studio Dance course ²		2
Hours		16
Semester 3		
Fine Arts or Theater course ¹		3
Social and Behavioral Sciences course ¹		3

Studio Dance course ²	2
Studio Dance course ²	2
Studio Dance course ²	2
Studio Dance course ²	2
Hours	14
Semester 4	
Fine Arts & Humanities course ¹	3
Social and Behavioral Sciences course ¹	3
Studio Dance course ²	2
Studio Dance course ²	2
Studio Dance course ²	2
Studio Dance course ²	2
Hours	14
Total Hours	61

1

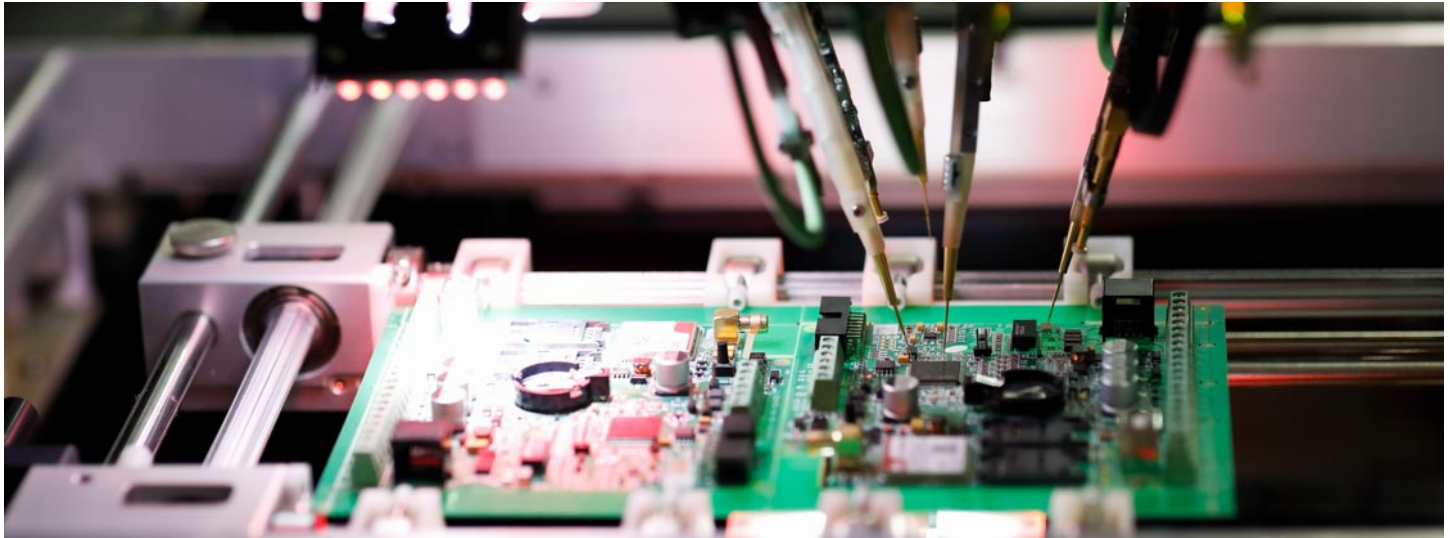
General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Electrical Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203 or BIOLOGY 115	General Chemistry II ³ or Human Biology	4-5
Hours		17-18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
Pathway Elective (p. 354) ³		3
Pathway Elective (p. 354) ³		3

Pathway Elective (p. 354) ³	3
Hours	15
Total Hours	64-65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 354)

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CIS 242	C++ Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Elementary Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Are you interested in rewarding work that changes the lives of students? Are you organized, patient, and caring? If yes, then the Elementary Education pathway may be right for you. Elementary school teachers work with students from kindergarten through eighth grade, and teach a variety of subjects. Elementary school teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with an Elementary Education endorsement from the Illinois State Board of Education. The pathway below is ideal for students planning to transfer to a four-year institution to become teachers, or for students interested in going right to work as a Teacher Assistant.

This is an **example course sequence** for students interested in pursuing Elementary Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a

composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 121	Math For Elementary Teachers I ¹	4
Fine Arts course ¹		3
EDUC 101	Introduction To Education ²	3
Select one of the following:		3
PSYCH 201	General Psychology ¹	
Social and Behavioral Sciences course ¹		
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 122	Math For Elementary Teachers II ²	4
LIT 130	Children's Literature ¹	3
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
EDUC 102	Using Technology in The Class ²	3
Hours		16
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
ANTHRO 202	Cultural Anthropology (HD) ¹	3
EDUC 203	Educational Psychology ²	3
POL SCI 201	The National Government ¹	3
Physical Sciences course ¹		4
Hours		16

Semester 4		
EDUC 103 or CHLD DV 205	Students With Disabilities in School ² or Development of Exceptional Child	3
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
CHLD DV 101	Human Growth & Development I ²	4
Select one of the following:		3
HUM 145 Humanities course ¹	Intro to Diversity/Ethnic Studies ¹	
Hours		14
Total Hours		62

1

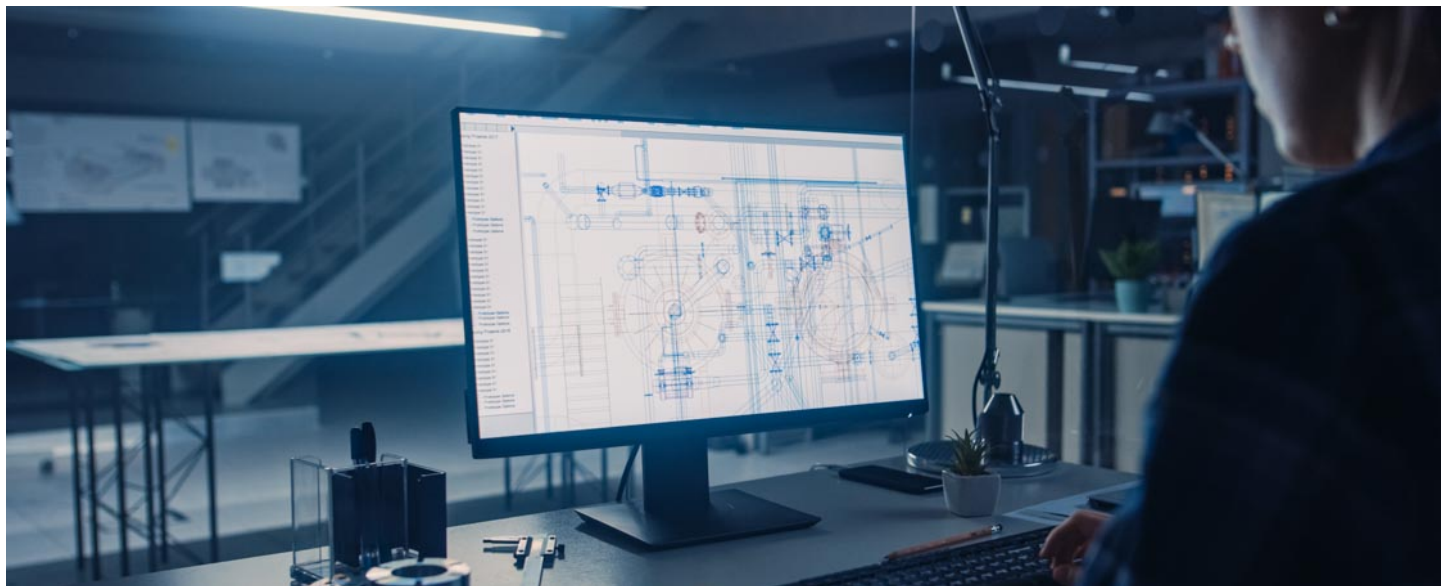
General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Engineering Mechanics, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3

PHYSICS 217	Mechanics Of Materials ³	3
ENGR 225	Introduction to Thermodynamics ³	3
Hours		15
Total Hours		65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 357)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
Pathway Elective (p. 358) ^{3,4}		5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
Pathway Elective (p. 358) ³		3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
Pathway Elective (p. 358) ³		5

Pathway Elective (p. 358) ³	3
Hours	14
Total Hours	64

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 358)

4

CHEM 203 General Chemistry II or BIOLOGY 121 Biology I recommended for Semester 2 Pathway Elective

Pathway Electives

Code	Title	Hours
BIOLOGY 121	Biology I	5
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
ENGR 250	Engineering Projects	1-2
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3

PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

English Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The English Education pathway begins your preparation to teach English to high school students. English teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with an English endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in English education.

This is an **example course sequence** for students interested in pursuing English Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Literature course ^{1,2}		3
EDUC 101	Introduction To Education ³	3
Fine Arts course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Literature course ^{1,2}		3
POL SCI 201	The National Government ¹	3
EDUC 102	Using Technology in The Class ³	3
Pathway Elective (p.) ³		3
Hours		15
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Life Sciences course ¹		3-4
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
Select one of the following:		3
Literature course ^{2,3}		
Creative Writing course ³		
Elective ³		
EDUC 203	Educational Psychology ³	3
Hours		15-16
Semester 4		
Select one of the following:		3
PSYCH 201	General Psychology ¹	
Social and Behavioral Sciences course ¹		
Physical Sciences course ¹		3-4
Select one of the following:		3

EDUC 103	Students With Disabilities in School ³	
Elective ³		
Select one of the following:		3
Literature course ^{2,3}		
Creative Writing course ³		
Elective ³		
ANTHRO 202	Cultural Anthropology ¹	3
	Hours	15-16
	Total Hours	61-63

1

General Education Requirement

2

One Literature course should be LIT 130 Children's Literature.

3

Pathway Elective

Choose your courses with your College Advisor.

English, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

If you love to curl up with a good book, then a pathway in English might be for you. But there's a lot more to studying English than just reading novels, short stories, plays, and poetry by English-speaking writers. You might choose to focus on the literature of a certain time period, location, or author. Or, you might write on material from film, journalism, and TV. Students in English work as educators, writers, advertising managers, public relations specialists and just about any career that needs people who write well.

This is an **example course sequence** for students interested in pursuing English. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
Any General Education Mathematics course ¹		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
World Language course ²		4
Hours		14
Semester 2		
ENGLISH 102	Composition ¹	3
Physical Sciences course ¹		3
Any Literature course ¹		3
Social and Behavioral Sciences course ¹		3
World Languages course ²		4
Hours		16
Semester 3		
Life Sciences course ¹		4
Social and Behavioral Sciences course ¹		3
Any Literature course that fulfills the Human Diversity requirement ²		3
World Languages course ²		4
Hours		14
Semester 4		
Social and Behavioral Sciences course (HD) ¹		3
Pathway Elective (p. 363) ²		3
Any Literature course ¹		3
Fine Arts course ¹		3

World Languages course ²	4
Hours	16
Total Hours	60

1

General Education Requirement

2

Pathway Elective (p. 363)

Pathway Electives

Code	Title	Hours
LIS 101	Information Literacy	3
LIS 105	Information Literacy Basics	1
LIT 110	Introduction To Literature	3
LIT 111	Poetry	3
LIT 112	Drama	3
LIT 113	Fiction	3
LIT 114	Ideas In Prose	3
LIT 115	Great Books Seminar/Topics Literature	3
LIT 116	American Literature from Colonial Days to Civil War	3
LIT 117	American Literature from the Civil War to the 20th Century	3
LIT 118	English Literature from its Beginnings to the Age of Johnson	3
LIT 119	English Literature from the Romantic Revival to the 20th Century	3
LIT 120	Contemporary British & American Literature	3
LIT 121	Contemporary African American Literature (HD)	3
LIT 122	Perspectives in Black Literature (HD)	3
LIT 123	Literature of the U.S. from the Civil War to the Present	3
LIT 124	Experimental Literature	3
LIT 125	Psychology in Black Literature (HD)	3
LIT 126	Contemporary American Literature	3
LIT 127	Contemporary British Literature	3
LIT 128	Latin American Literature (HD)	3
LIT 129	U.S. Latino (a) Literature (HD)	3
LIT 130	Children's Literature	3
LIT 131	Survey Of Afro-American Poetry (HD)	3
LIT 132	Native American Literature (HD)	3
LIT 133	African American Fiction (HD)	3
LIT 137	The Black Woman In Black Fiction (HD)	3
LIT 150	Women's Literature (HD)	3
LIT 153	Gay and Lesbian Literature (HD)	3
LIT 155	Literature and Film	3
LIT 156	Creative Non-fiction	3
LIT 157	Graphic Novels	3
LIT 211	Shakespeare	3
LIT 220	World Literature	3
LIT 223	Intro To Literary Genres	3
LIT 299	Science Fiction: Psychology & Prophecy	3
ENGLISH 105	Business Writing	3
ENGLISH 107	Report Writing	1-3

ENGLISH 150	College Newspaper	1
ENGLISH 151	News Reporting And Writing	3
ENGLISH 152	Intro To Mass Communication	3
ENGLISH 201	Advanced Composition	3
ENGLISH 241	Creative Writing	3
ENGLISH 243	Creative Writing--Fiction	3
ENGLISH 245	Creative Writing, Poetry	3
ENGLISH 299	Special Topics In English	1-3
Advanced Writing course		
World Languages courses		

Choose your courses with your College Advisor.

Environmental Biology, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

Ever been told you can't see the forest from the trees? When environmental biologists get to work, they not only look at the trees—they look at the animals, the rocks, the soil, and the air. The environmental biology pathway studies the web of living and nonliving things in an environment to understand how the whole system works. Studying environmental biology, you can later transfer to a four-year university as a junior, obtain your bachelor's degree and work in fields like environmental engineering, forestry, wildlife preservation or national park administration.

This is an **example course sequence** for students interested in earning a degree in Environmental Biology. This pathway does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 140	College Algebra ¹	4
BIOLOGY 119	Environmental Biology ¹	4

Select one of the following:			3
AFRO AM 101	Introduction to African-American Studies (HD) ¹		
ANTHRO 202	Cultural Anthropology (HD) ¹		
HISTORY 215	History of Latin America (HD) ¹		
HISTORY 247	African History to Colonial Period (HD) ¹		
LIT 121	Contemporary African American Literature (HD) ¹		
LIT 150	Women's Literature (HD) ¹		
Hours			14
Semester 2			
BIOLOGY 121	Biology I ¹		5
ENGLISH 102	Composition ¹		3
SPEECH 101	Fundamentals of Speech Communication ¹		3
Social and Behavioral Sciences course ¹			3
Hours			14
Semester 3			
BIOLOGY 122	Biology II ²		5
CHEM 201	General Chemistry I ¹		5
Fine Arts course ¹			3
MATH 125	Introductory Statistics ¹		4
Hours			17
Semester 4			
CHEM 203	General Chemistry II ²		5
Humanities or Social and Behavioral Sciences course ¹			3
Pathway Elective (p. 365) ²			4
Pathway Elective (p. 365) ²			3
Hours			15
Total Hours			60

¹

General Education Requirement

²

Pathway Elective (p. 365)

Pathway ElectivesS

Code	Title	Hours
BIOLOGY 122	Biology II	5
BIOLOGY 236	Environmental Biology II	4
BIOLOGY 299	Special Topics In Biology (Environmental Biology Internship)	3
BIOLOGY 299	Special Topics In Biology (Environmental Biology Research)	3
CHEM 121	Basic Chemistry I	4
CHEM 203	General Chemistry II	5
Select one of the following:		6-8
MATH 140 & MATH 141	College Algebra and Plane Trigonometry	
MATH 143	Pre Calculus ²	
MCROBIO 236	Applied & Environmental Microbiology	4

1

CHEM 121 Basic Chemistry I should only be taken if the student needs it for admittance into CHEM 201 General Chemistry I.

2

MATH 143 Pre Calculus should only be taken if the student needs it for admittance into MATH 207 Calculus & Analytic Geometry I.

Choose your courses with your College Advisor.

Environmental Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3
PHYSICS 217	Mechanics Of Materials ³	3

Pathway Elective (p. 366) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 366)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3

French Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The French Education pathway begins your preparation to teach French to K-12 students. French teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a French endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in French education.

This is an **example course sequence** for students interested in pursuing French Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level program of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Fine Arts course ¹		3
EDUC 101	Introduction To Education ²	3
French course ²		4
Hours		17
Semester 2		
ENGLISH 102	Composition ¹	3
EDUC 203	Educational Psychology ²	3
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
French course ²		4
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Fine Arts & Humanities course ¹		
Hours		16
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
POL SCI 201	The National Government ¹	3
French course ²		4
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
Hours		14
Semester 4		
Physical Sciences course ¹		3
French course ²		4
FRENCH 213 or FRENCH 214	Intro To Modern Literature French ¹ or Readings In Literature French	3
Select one of the following:		3
HISTORY 142	Hist World Civiliz Frm 1500 ¹	

History course ¹	
Hours	13
Total Hours	60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Gender, Women's, and Sexuality Studies, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example** course sequence for students interested in pursuing Gender, Women's, and Sexuality Studies (GWSS). This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree and a General Education Core Curriculum (GECC) Credential.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
HUM 144	Introduction to Women's and Gender Studies ^{1,2,3}	3
HISTORY 118	Women In American History ^{1,2,3}	3
Elective		3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
HUM 146	Gay, Lesbian, Bisexual & Transgender ³	3
Pathway Elective in (p.)	Humanities ^{1,2}	3
SOC 207	The Sociology Of Sex & Gender ³	3
BIOLOGY 113	The Biology Of Women (or other Physical Sciences or Life Sciences course without lab) ^{1,2}	3
Hours		15
Semester 3		
Fine Arts course (GWSS emphasis recommended) ¹		
MATH 125	Introductory Statistics (or other Mathematics course) ¹	4

Pathway Elective in (p.)	Social and Behavioral Sciences ¹	3
Physical Sciences or Life Sciences course with lab ¹		4
Pathway Elective (p.) ²		3
Hours		17
Semester 4		
Pathway Elective (p.) ²		3
Pathway Elective (p.) ²		3
Pathway Elective (p.) ²		3
Pathway Elective or other elective (p.) ²		3
Pathway Elective or other elective (p.) ²		3
Hours		15
Total Hours		62

- 1
General Education course
- 2
Pathway Elective (p.)
- 3
GWSS Pathway Core course

PATHWAY ELECTIVES

Code	Title	Hours
ANTHRO 202	Cultural Anthropology [*]	3
BIOLOGY 113	The Biology Of Women	3
CRM JUS 202	Issues In Criminal Justice [*]	3
FIN ART 104	The World Of The Cinema [*]	3
FIN ART 105	History of Painting, Sculpture & Architecture [*]	3
HISTORY 118	Women In American History	3
HUM 105	The New World Of Mass Media [*]	3
HUM 144	Introduction to Women's and Gender Studies	3
HUM 146	Gay, Lesbian, Bisexual & Transgender	3
HUM 201	General Course I Humanities [*]	3

HUM 208	Women In Creative-Performing Arts	3
LIT 137	The Black Woman In Black Fiction	3
LIT 150	Women's Literature	3
LIT 153	Gay and Lesbian Literature	3
PHIL 110	Social/Political Philosophy *	3
PHIL 225	Philosophy Of Art *	3
PSYCH 203	The Psychology of Women	3
SOC 203	Marriage And The Family	3
SOC 207	The Sociology Of Sex & Gender	3

*

Select a section with Gender, Women's, and/or Sexuality Studies emphasis. GWSS emphasis offerings vary by semester, instructor, and department.

Choose your courses with your College Advisor.

General Science Education, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The General Science Education pathway begins your preparation to teach science to middle school students. Science teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Science endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in science education.

This is an **example course sequence** for students interested in pursuing Science Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 121	Math For Elementary Teachers I ¹	4
BIOLOGY 121	Biology I ¹	5
EDUC 101	Introduction To Education ²	3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 122	Math For Elementary Teachers II ¹	4
BIOLOGY 122	Biology II ¹	5
Select one of the following:		3
ASTROMY 201	Descriptive Astronomy ¹	
Physical Sciences course ¹		
Hours		15
Semester 3		
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
CHEM 201	General Chemistry I ¹	5
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Humanities course (HD) ¹		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Select one of the following:		3
ANTHRO 202	Cultural Anthropology ¹	
Social and Behavioral Sciences course ¹		
Hours		17
Semester 4		
EDUC 203	Educational Psychology ²	3
Fine Arts course ¹		3
CHEM 203	General Chemistry II ²	5

POL SCI 201	The National Government ²	3
	Hours	14
	Total Hours	61

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Geology, Earth, and Environmental Science, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

As a geosciences student, you won't just study rocks, you'll explore the Earth's history and gain valuable insight into some of today's most pressing concerns, such as global climate change. You'll study the Earth's treasures, such as fossils and gems, as well as its dangers, such as volcanoes and earthquakes. You might find yourself becoming a geoscientist, a meteorologist, a mining engineer, an environmental scientist, or a geological engineer at an oil company.

This is an **example course sequence** for students interested in pursuing Geology, Earth Science, Earth and Environmental Science. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
GEOLOGY 201	Physical Geology ¹	4
MATH 207	Calculus & Analytic Geometry I ¹	5

Social and Behavioral Sciences course (HD) ¹		3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
BIOLOGY 121	Biology I ¹	5
MATH 208	Calculus & Analytic Geometry II ¹	5
Social and Behavioral Sciences course ¹		3
Hours		16
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
CHEM 201	General Chemistry I (Or high school chemistry equivalent) ¹	5
Humanities course ¹		3
Physical Sciences Elective ²		3-5
Hours		14-16
Semester 4		
Fine Arts course ¹		3
PHYSICS 221	Mechanics, Waves, and Heat ²	5
CHEM 203	General Chemistry II ²	5
Elective ²		3
Hours		16
Total Hours		61-63

¹ General Education Requirement

² Pathway Elective (p. 373)

Pathway Elective

Code	Title	Hours
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans	3
ASTROMY 201	Descriptive Astronomy	3
BOTANY 201	General Botany I	4
ENVR ST 101	Man & Environment I	3

GEOG 101	World Geography	3
GEOG 201	Physical Geography	3
LIS 101	Information Literacy	3
MATH 209	Calculus & Analytic Geometry III	5
PHY SCI 101	General Course Physical Science	3
PHY SCI 107	Current Public Issues in Physical Science	3
PHY SCI 111	General Course I Physical Science	4

Choose your courses with your College Advisor.

History, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing History. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

The history courses required for a history major can vary greatly between colleges, so it is recommended to research the major requirements of the four-year institutions to which you hope to transfer.

As of July 2014, World Language courses are no longer a degree requirement. World Language courses are recommended for students who are transferring to a four-year institution with a World Languages requirement. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
SOC SCI 102	General Course II Social Science ¹	3
HUM 123 or HUM 201	Intro To Arts & Ideas ¹ or General Course I Humanities	3
Pathway Elective (p. 376) ²		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Physical Sciences course ¹		3-4
HISTORY 111 or HISTORY 141	History of American People To 1865 ¹ or History of World Civilization to 1500	3
Pathway Elective (p. 376) ²		3
Pathway Elective (p. 376) ²		3
Hours		15-16
Semester 3		
Life Sciences course ¹		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
Fine Arts & Humanities course ¹		3
HISTORY 112 or HISTORY 142	History of American People From 1865 ¹ or Hist World Civiliz Frm 1500	3
Pathway Elective (p. 376) ²		3
Hours		16
Semester 4		
Fine Arts course ¹		3
Pathway Elective (HD) (p. 376) ²		3
Pathway Elective (p. 376) ²		3
Pathway Elective (p. 376) ²		3

Pathway Elective (p. 376) ²	3
Hours	15
Total Hours	62-63

1

General Education Requirement

2

Pathway Elective (p. 376)

PATHWAY Electives

Code	Title	Hours
HISTORY 111	History of American People To 1865	3
HISTORY 112	History of American People From 1865	3
HISTORY 141	History of World Civilization to 1500 (HD)	3
HISTORY 142	Hist World Civiliz Frm 1500 (HD)	3
HISTORY 215	History of Latin America (HD)	3
HISTORY 225	Modern Middle East History (HD)	3
HISTORY 243	The Far East in the Modern World (HD)	3
HISTORY 247	African History to Colonial Period (HD)	3
HISTORY 248	African History - Modern Period (HD)	3
AFRO AM 101	Introduction to African-American Studies (HD)	3
ANTHRO 202	Cultural Anthropology (HD)	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
FIN ART 104	The World Of The Cinema	3
FIN ART 105	History of Painting, Sculpture & Architecture	3
FIN ART 107	History of Architecture, Painting & Sculpture I	3
FIN ART 108	Hist Of Arch Paint Sculp II	3
PHIL 105	Logic	3
PHIL 106	Introduction To Philosophy	3
PHIL 107	Ethics	3
POL SCI 201	The National Government	3
POL SCI 203	Comparative Government	3
POL SCI 204	International Relations (HD)	3
HUM 205	World Literature I (HD)	3
GEOG 101	World Geography (HD)	3
World Language courses (check with your Advisor for HD offerings)		

Choose your courses with your College Advisor.

Human Development and Family Studies, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Are you interested in learning about human development, and studying the nature of relationships and the role of families? If so, a pathway in Human Development and Family Studies might be right for you. The AA in Human Development and Family Studies can lead to employment as a Human Services Assistant or Family Specialist in social service agencies, Head Start daycares, community-based organizations and non-profits, among others.

This is an **example course sequence** for students interested in pursuing Human Development and Family Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

For students interested in earning the Gateways Family Specialist Credential, you must take the HDFS Internship course for an additional six (6) credit hours.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
PSYCH 201	General Psychology ¹	3
CHLD DV 101	Human Growth & Development I ²	4

Physical Sciences Course ¹		3
Hours		17
Semester 2		
CHLD DV 102	Human Growth & Development II ²	3
ENGLISH 102	Composition ¹	3
Fine Arts course (Art or Music course recommended) ¹		3
HDFS 203	Family Development/Cross Cultural Perspective ²	3
HDFS 211	Principles of Human Services	3
Hours		15
Semester 3		
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
HDFS 202	Intimate Relationships ²	3
HDFS 214	Basic Applications in Human Services	3
PSYCH 211	Social Psychology	3
SOC 201	Intro To the Study Of Society (HD) ¹	3
Hours		16
Semester 4		
Fine Arts & Humanities course (HD) ¹		3
PHIL 105	Logic	3
Social and Behavioral Sciences course ¹		3
SPEECH 101	Fundamentals of Speech Communication	3
Hours		12
Total Hours		60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Human Geography, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

If you think geography is all about staring at maps and memorizing state capitals, you couldn't be more wrong. As a Human Geography student, you'll study a wide variety of subjects: deserts in the making, the causes of many urban governmental decisions, the paths of tornadoes, and the way international trade agreements affect business in a small town. Human Geographers study how human communities function globally and locally and learn how to read future social and economic trends. Study of Human Geography will allow you to obtain your bachelor's degree at a four-year college. If you are interested in community development, environmental protection, local government, or in working in organizations like the United Nations Children's Fund (UNICEF), the Red Cross, the World Health Organization or even the World Bank, the human geography pathway is a great choice for you.

This is an **example course sequence** for students interested in pursuing Human Geography. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
Fine Arts course ¹		3
GEOG 101	World Geography (HD) ¹	3
World Language course ²		4
		Hours
		17
Semester 2		
ENGLISH 102	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
GEOG 102	Economic Geography ¹	3
World Language course ²		4
Pathway Elective (p. 379) ²		3
		Hours
		16
Semester 3		
GEOG 201	Physical Geography ¹	3
Fine Arts & Humanities ¹		3
ANTHRO 202	Cultural Anthropology ¹	3
World Language course ²		4
Pathway Elective (p. 379) ²		3
		Hours
		16
Semester 4		
Humanities course ¹		3
Life Sciences course ¹		4
Pathway Elective (p. 379) ²		3
World Language course or Elective ²		3-4
		Hours
		13-14
		Hours
		Total Hours
		62-63

1

General Education Requirement

2

Pathway Elective (p. 379)

Pathway Electives

Code	Title	Hours
RELIGN 101	Introduction To Religion	3
RELIGN 108	Religion And Psychology	3
CIS 120	Introduction to Computer Applications	3
CIS 145	Database Management	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
LIS 101	Information Literacy	3
PHIL 106	Introduction To Philosophy	3
PHIL 107	Ethics	3
PHY SCI 118	Introduction to Meteorology	4
POL SCI 204	International Relations (HD)	3
POL SCI 205	Public Administration	3
SOC 201	Intro To the Study Of Society (HD)	3
SOC 210	Diverse Cultures/Global Age (HD)	3

World Language courses

Choose your courses with your College Advisor.

Industrial Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3

PHYSICS 217	Mechanics Of Materials ³	3
Pathway Elective (p. 380) ³		3
Hours		15
Total Hours		65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 380)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Insurance, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This program prepares students to provide insurance and risk management service to people, businesses and other organizations. If you study insurance, you'll learn about helping companies create safe working conditions, as well as other aspects of risk management. Students in this pathway will learn sales, communications, record management, and more.

This is an **example course sequence** for students interested in earning an Associate in Arts (AA) degree. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
PHIL 105	Logic ¹	3

BUSINES 221	Insurance ²	3
Fine Arts course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
BUSINES 281	Corporate Organizations: Understanding Business Processes ²	3
Life Sciences course ¹		4
ECON 201	Principles Of Economics I ¹	3
Hours		16
Semester 3		
Social and Behavioral Sciences course (HD) ¹		3
CIS 299	Special Topic Comp Info Sys (Adv. Spreadsheet/PPT) ²	4
BUSINES 284	Business Communications ²	3
BUSINES 181	Financial Accounting ²	4
ECON 202	Principles Of Economics II ¹	3
Hours		17
Semester 4		
BUSINES 182	Managerial Accounting ²	4
Physical Sciences course ¹		3
BUSINES 237	Selling ²	3
PHIL 107	Ethics ¹	3
Hours		13
Total Hours		62

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

International Studies, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Want to study the delicate dance of diplomacy and look at the way nations interact on military, economic, and cultural levels? If you feel at home in a field with few black-and-white answers, international studies may be for you. International relations is filled with gray areas; you'll learn to think critically with no fixed set of rules to follow. Students on a pathway in international studies are prepared to enter a four-year institution as a junior, earn their bachelor's degree and become diplomats, global human rights workers, foreign politics experts, and many other careers that require an understanding of how nations interact with one another internationally.

This is an **example course sequence** for students interested in pursuing International Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

MATH 125	Introductory Statistics ¹	4
SOC SCI 102	General Course II Social Science ¹	3
POL SCI 204	International Relations (HD) ¹	3
Pathway Elective (p. 383) ²		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Humanities course ¹		3
POL SCI 201	The National Government ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Pathway Elective (p. 383) ²		3
Hours		15
Semester 3		
Life Sciences course ¹		4
Fine Arts ¹		3
Pathway Elective (p. 383) ²		3
Pathway Elective (p. 383) ²		3
Pathway Elective (p. 383) ²		3
Hours		16
Semester 4		
Pathway Elective (p. 383) ²		3
Physical Sciences course ¹		4
Fine Arts & Humanities course ¹		3
Pathway Elective (p. 383) ²		3
Hours		13
Total Hours		60

1

General Education Requirement

2

Pathway Elective (p. 383)

PATHWAY Electives

Code	Title	Hours
ANTHRO 202	Cultural Anthropology (HD)	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
GEOG 101	World Geography (HD)	3
HISTORY 141	History of World Civilization to 1500 (HD)	3
HISTORY 142	Hist World Civiliz Frm 1500 (HD)	3
HISTORY 215	History of Latin America (HD)	3
HISTORY 225	Modern Middle East History (HD)	3
HISTORY 243	The Far East in the Modern World (HD)	3
HISTORY 247	African History to Colonial Period (HD)	3
HISTORY 248	African History - Modern Period (HD)	3
POL SCI 200	Principles of Political Science	3
POL SCI 203	Comparative Government (HD)	3
POL SCI 206	American Foreign Policy (HD)	3
SOC SCI 101	General Course I Social Science	3
SOC 211	Race & Ethnic Relations (HD)	3

World Languages courses

Choose your courses with your College Advisor.

Journalism, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Are you someone who can't get enough of the latest headlines? If so, you may want to consider study in journalism. If you are a quick study with a keen curiosity who can gather, absorb, and deliver information in the heat of a looming deadline: that's what journalism is all about. People with degrees in journalism work in broadcast news writing, copy editing and design, magazine writing, media law and ethics, reporting and more.

This is an **example course sequence** for students interested in pursuing Journalism. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

MATH 118	General Education Math (or higher Mathematics course) ¹	4
Social and Behavioral Sciences course ¹		3
SPEECH 101	Fundamentals of Speech Communication ¹	3
ENGLISH 151	News Reporting And Writing ²	3
ENGLISH 150	College Newspaper ²	1
Hours		17
Semester 2		
ENGLISH 102	Composition ¹	3
Social and Behavioral Sciences course (HD) ¹		3
Humanities course ¹		3
ENGLISH 152	Intro To Mass Communication ²	3
ENGLISH 150	College Newspaper ²	1
Hours		13
Semester 3		
Fine Arts & Humanities course ¹		3
World Language course ²		4
ENGLISH 276	Feature Writing for Newspapers & Magazines ²	3
Physical Sciences course ¹		4
ENGLISH 150	College Newspaper ²	1
Hours		15
Semester 4		
Fine Arts course ¹		3
Social and Behavioral Sciences course ¹		3
Life Sciences course ¹		4
World Language course ²		4
ENGLISH 150	College Newspaper ²	1
Hours		15
Total Hours		60

1

General Education Requirement

2

Pathway Elective (p. 385)

Pathway Electives

Code	Title	Hours
ENGLISH 150	College Newspaper (Repeatable course – can be taken up to 4 times)	1
ENGLISH 151	News Reporting And Writing	3
ENGLISH 152	Intro To Mass Communication	3
ENGLISH 276	Feature Writing for Newspapers & Magazines	3

World Language courses

Choose your courses with your College Advisor.

Latin American and Latin@ Studies, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example** course sequence for students interested in pursuing Latin American and Latin@ Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
HUM 143	Intro to Latin American/Latino Studies ¹	3
HISTORY 215	History of Latin America (or other Social and Behavioral Science pathway elective (p. 386)) ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
French or Spanish World Language course		4
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
ANTHRO 202	Cultural Anthropology (with LALS emphasis) ¹	3
Fine Arts and Humanities pathway course ¹		3
Next level French or Spanish World Language course		4
Physical Sciences or Life Sciences course with lab ¹		4
Hours		17
Semester 3		
Fine Arts and Humanities pathway course ¹		3
MATH 118	General Education Math (or higher Mathematics course) ¹	4
Pathway elective (World Languages strongly suggested) (p. 386)		3
Physical Sciences or Life Sciences course without lab ¹		3

SOC 201	Intro To the Study Of Society (with LALS emphasis) ¹	3
Hours		16
Semester 4		
Pathway elective (World Languages strongly suggested) (p. 386)		3
Pathway elective (p. 386)		3
Pathway elective (p. 386)		3
Pathway elective (p. 386)		3
Pathway elective (p. 386)		3
Hours		15
Total Hours		64

¹

General Education course

Pathway Electives

Code	Title	Hours
ANTHRO 202	Cultural Anthropology *	3
FIN ART 104	The World Of The Cinema *	3
FRENCH 101	First Course French	4
FRENCH 102	Second Course French	4
FRENCH 103	Third Course French	4
FRENCH 104	Fourth Course French	4
HISTORY 201	The History of the Mexican People	3
HISTORY 211	Problems In History *	3
HISTORY 215	History of Latin America	3
HISTORY 216	U.S. Latinx History	3
HUM 143	Intro to Latin American/Latino Studies	3
HUM 201	General Course I Humanities *	3
HUM 202	General Course II Humanities *	3
HUM 205	World Literature I (*)	3
HUM 208	Women In Creative-Performing Arts *	3
HUM 209	Latinxs in Chicago	3
HUM 212	Non-Western Humanities *	3

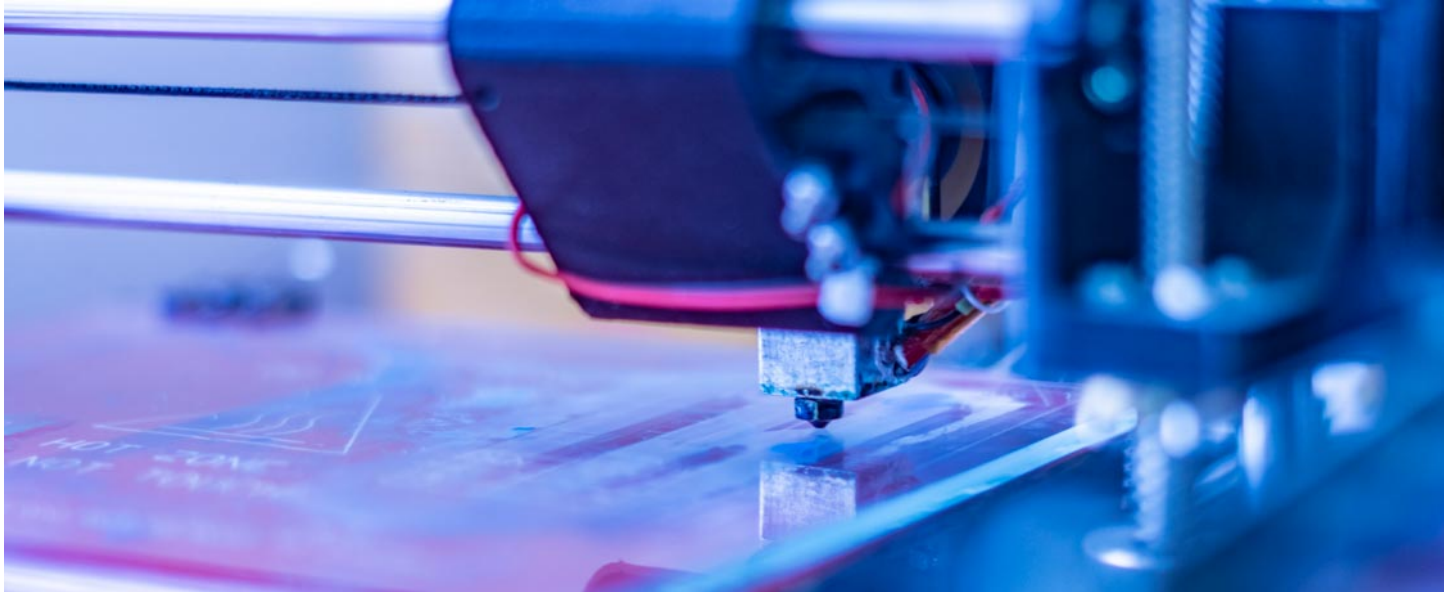
LIT 128	Latin American Literature	3
LIT 129	U.S. Latino (a) Literature	3
MUSIC 121	Introduction To Music *	3
MUSIC 183	World Music *	3
SPANISH 101	First Course Spanish	4
SPANISH 102	Second Course Spanish	4
SPANISH 103	Third Course Spanish	4
SPANISH 104	Fourth Course Spanish	4
SPANISH 111	Spanish For Hispanos (Heritage Speakers)	3
SPANISH 113	Spanish For Near Native Speakers I (Heritage Speakers)	4
SPANISH 114	Spanish for Near-Native Speakers II (Heritage Speakers)	4
SPANISH 213	Intro To Modern Literature Spanish	3
SPANISH 214	Readings In Literature Spanish	3

*

Select a section with Latin American and Latin@ Studies (LALS) emphasis

Choose your courses with your College Advisor.

Materials Science and Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
Pathway Elective (p. 388) ³		3

Pathway Elective (p. 388) ³	3
Pathway Elective (p. 388) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 388)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Mathematics Education, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The Mathematics Education pathway begins your preparation to teach Math to high school students. Math teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Math endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in math education.

This is an **example course sequence** for students interested in pursuing Mathematics Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
EDUC 101	Introduction To Education ²	3
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
MATH 207	Calculus & Analytic Geometry I ¹	5
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
ANTHRO 202	Cultural Anthropology ¹	3
EDUC 102 or EDUC 103	Using Technology in The Class ² or Students With Disabilities in School	3
MATH 208	Calculus & Analytic Geometry II (Or higher) ¹	5
Hours		14
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
EDUC 203	Educational Psychology ²	3
MATH 209	Calculus & Analytic Geometry III ¹	5
Physical Sciences course ¹		3
Hours		17
Semester 4		
POL SCI 201	The National Government ²	3
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Humanities course (HD)		
Fine Arts course ¹		3
Physical Sciences or Life Sciences course ¹		3

MATH 210	Differential Equations ²	3
	Hours	15
	Total Hours	61

1

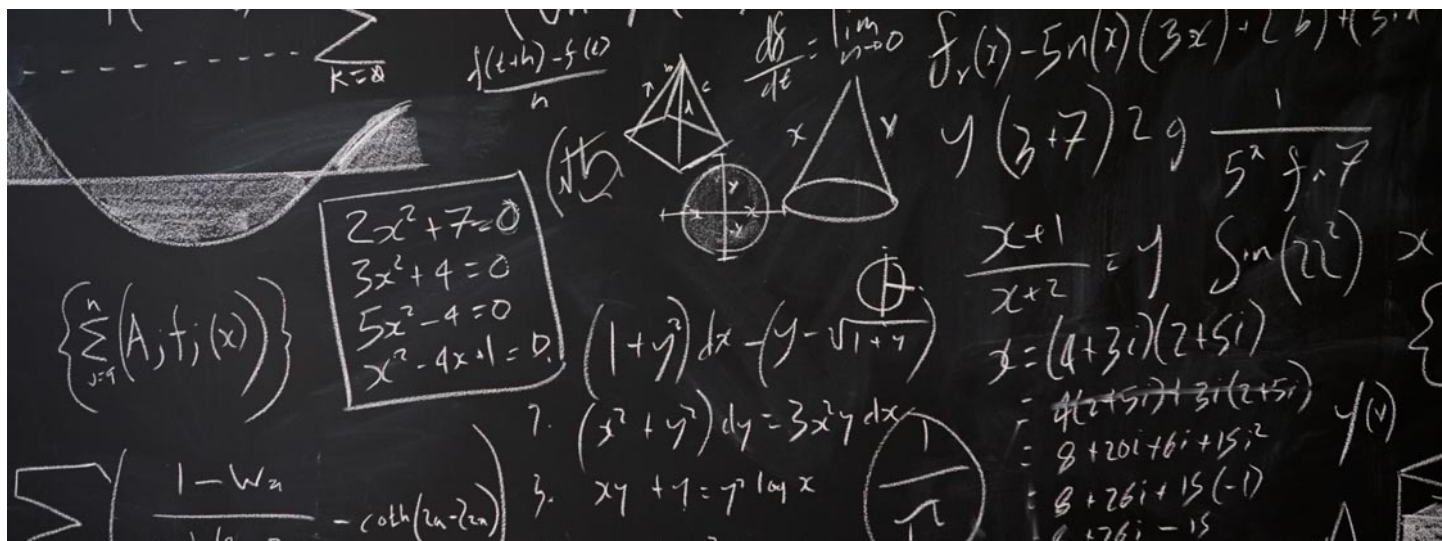
General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Mathematics, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

Most of us are comfortable using everyday mathematics, but higher level mathematics, such as calculus, may seem mysterious, a completely unfamiliar language. As a mathematics student, you'll study this language and learn how to use it to describe the world. You'll explore calculus, modern algebra, and other high-level mathematics in the purest light. If you love to solve puzzles, enjoy finding patterns and discovering whether something is true or false, this could be the pathway for you. If it all adds up, you might become a computer scientist, a mathematics instructor, a financial analyst, a mathematician, a statistician and more.

This is an **example course sequence** for students interested in pursuing Mathematics. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

MATH 207	Calculus & Analytic Geometry I ¹	5
Social and Behavioral Sciences course ¹		3
SPEECH 101	Fundamentals of Speech Communication ¹	3
Hours		14
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II ¹	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion ¹	5
Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 3		
MATH 209	Calculus & Analytic Geometry III ²	5
Life Sciences course ¹		3
MATH 210	Differential Equations ²	3
Pathway Elective (p. 391) ²		3
Humanities ¹		3
Hours		17
Semester 4		
MATH 212	Linear Algebra ²	3
Fine Arts course ¹		3
Elective ²		3
CHEM 201	General Chemistry I ¹	5
Hours		14
Total Hours		61

1

General Education Requirement

2

Pathway Elective (p. 391)

Pathway Electives

Code	Title	Hours
RELIGN 101	Introduction To Religion	3
RELIGN 108	Religion And Psychology	3
CHEM 121	Basic Chemistry I ¹	4
MATH 209	Calculus & Analytic Geometry III	5

MATH 210	Differential Equations	3
MATH 212	Linear Algebra	3
Select one of the following:		6-7
MATH 140 & MATH 141	College Algebra and Plane Trigonometry	
MATH 143	Pre Calculus ²	
PHIL 106	Introduction To Philosophy	3
PHIL 107	Ethics	3
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5

Additional electives such as Comparative Religion

1

CHEM 121 Basic Chemistry I should only be taken if the student needs it for admittance into CHEM 201 General Chemistry I.

2

MATH 143 Pre Calculus should only be taken if the student needs it for admittance into MATH 207 Calculus & Analytic Geometry I.

Choose your courses with your College Advisor.

Mechanical Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3

Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3
PHYSICS 217	Mechanics Of Materials ³	3
ENGR 225	Introduction to Thermodynamics ³	3
Hours		15
Total Hours		65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 393)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3

Music (General), Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

An Associate in Arts with a focus in Music is designed for students interested in pursuing basic Music general studies with the possibility of transferring to careers related to Musical Theater, Music Therapy, Music Industry, Musicology, Ethnomusicology, or a combination related to performing arts in general.

This is an **example course sequence** for students interested in pursuing Music. This pathway does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Speak with your college advisor for General Education course suggestions and with a Music faculty at your home college for appropriate guidance on approved electives according to your performing arts educational interests.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition	3
Physical Sciences or Life Sciences course with lab		4
Social and Behavioral Sciences course ¹		3

MUSIC 101 or MUSIC 102	Fundamentals of Music Theory ² or Music Theory I	3
MUSIC 181 or MUSIC 182	Applied Music-Freshman Level I or Applied Music-Freshman Level II	2
Select one of the following: ²		2
MUSIC 105	Group Piano I ²	
MUSIC 114	Guitar Class	
MUSIC 150	Class Voice I	
Hours		17
Semester 2		
SPEECH 101	Fundamentals of Speech Communication	3
MATH 118	General Education Math (or above)	4
MUSIC 102	Music Theory I ^{2,3}	3
MUSIC 106	Group Piano II ²	2
MUSIC 111	Aural & Keyboard Skills I ^{2,3}	2
Pathway Elective (p.) ²		2
Hours		16
Semester 3		
ENGLISH 102	Composition	3
Physical Sciences or Life Sciences course without lab		3
Social and Behavioral Sciences course ¹		3
Select one of the following: ¹		3
MUSIC 124	Trends In Mod Amer Music	
MUSIC 183	World Music	
MUSIC 221	Music Literature & History	
Pathway Elective (p.) ²		3
Hours		15
Semester 4		
Humanities course ¹		3
Social and Behavioral Sciences course ¹		3
Select one of the following: ¹		3
MUSIC 124	Trends In Mod Amer Music	
MUSIC 183	World Music	
MUSIC 221	Music Literature & History	
Pathway Elective (p.) ²		2

Pathway Elective (p.) ²	2
Hours	13
Total Hours	61

1

One course must satisfy the Human Diversity (HD) requirement

2

Pathway Elective (p.). Check with Academic Advisor and/or Music Faculty.

3

Or other Pathway Elective (p.) if taken before

Pathway Electives

Code	Title	Hours
MUSIC 101	Fundamentals of Music Theory	3
MUSIC 102	Music Theory I	3
MUSIC 103	Music Theory II	3
MUSIC 105	Group Piano I	2
MUSIC 106	Group Piano II	2
MUSIC 107	Jazz Improvisation Pt I	2
MUSIC 108	Jazz Improvisation Pt II	2
MUSIC 109	Jazz/Pop Ensemble	2
MUSIC 110	Jazz/Pop Ensemble: Blues Emphasis	2
MUSIC 111	Aural & Keyboard Skills I	2
MUSIC 112	Aural & Keyboard Skills II	2
MUSIC 113	String Class	2
MUSIC 114	Guitar Class	2
MUSIC 119	Percussion Class	2
MUSIC 120	Introduction to Music Business	3
MUSIC 122	Perspectives In Jazz	3
MUSIC 124	Trends In Mod Amer Music	3
MUSIC 131	Chorus	1-2
MUSIC 134	Orchestra	1
MUSIC 135	Instrumental Ensembles	1
MUSIC 136	Vocal Ensembles	1
MUSIC 150	Class Voice I	2
MUSIC 151	Class Voice II	2
MUSIC 180	Applied Music-Elective Level	2
MUSIC 181	Applied Music-Freshman Level I	2
MUSIC 182	Applied Music-Freshman Level II	2
MUSIC 183	World Music	3
MUSIC 200	Black Music Workshop	3
MUSIC 201	Music Theory III	3
MUSIC 202	Music Theory IV	3
MUSIC 204	Commercial Music Workshop I	2
MUSIC 205	Commercial Music Workshop II	2
MUSIC 211	Aural and Keyboard Skills III	2
MUSIC 212	Aural and Keyboard Skill IV	2
MUSIC 225	Individual Project	2
MUSIC 281	Applied Music-Sophomore Level I	2
MUSIC 282	Appl Music-Soph Lvl II	2

Choose your courses with your College Advisor.

Nuclear, Plasma, Radiological Engineering, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3

ENGR 225	Introduction to Thermodynamics ³	3
Pathway Elective (p. 396) ³		
Hours		12
Total Hours		62

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

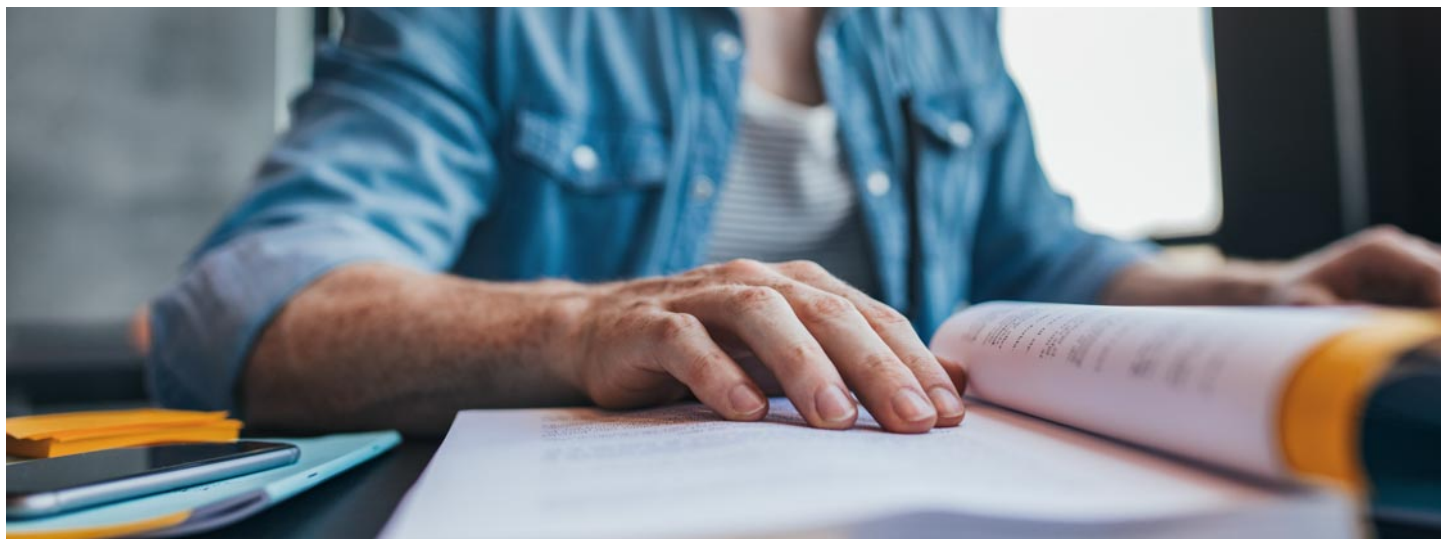
3

Pathway Elective (p. 396)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Philosophy, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Philosophy students examine basic questions about topics such as the nature of existence and knowledge, and study the history of human intellectual activities. Philosophy prepares you for all sorts of careers, as you develop greater skills in logic, problem solving, and creative thinking.

This is an **example course sequence** for students interested in pursuing Philosophy. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
SPEECH 101	Fundamentals of Speech Communication ¹	3
World Language course ²		4
Social and Behavioral Sciences course ¹		3

PHIL 106	Introduction To Philosophy ¹	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Physical Sciences & Life Sciences course with lab ¹		4
World Language course ²		4
Social and Behavioral Sciences course (HD) ¹		3
PHIL 107	Ethics ¹	3
Hours		17
Semester 3		
MATH 118	General Education Math (or higher Mathematics course) ¹	4
Fine Arts or Interdisciplinary Humanities course ¹		3
Social and Behavioral Sciences course ¹		3
PHIL 105	Logic ²	3
Pathway Elective (p. 397) ²		3
Hours		16
Semester 4		
Physical Sciences & Life Sciences course with lab ¹		4
Philosophy Elective ²		3
Pathway Elective (p. 397) ²		3
Pathway Elective (p. 397) ²		3
Hours		13
Total Hours		62

¹

General Education Requirement

²

Pathway Elective (p. 397)

Pathway Electives

Code	Title	Hours
ANTHRO 202	Cultural Anthropology (HD)	3
HISTORY 141	History of World Civilization to 1500 (HD)	3
HISTORY 142	Hist World Civiliz Frm 1500 (HD)	3
PHIL 108	Philosophy Of Religion	3
PHIL 110	Social/Political Philosophy	3

PHIL 201	Greek Philo To Renaissance	3
PHIL 202	Enlightenment To Present	3
PHIL 215	Problems In Philosophy	3
PHIL 216	Critical Thinking	3
PHIL 225	Philosophy Of Art	3

Choose your courses with your College Advisor.

Photography, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Photography. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you earn your associate degree, which will increase your chances of transfer to bachelor's-level programs. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org/>) and speak with your college advisor to learn more about IAI.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ART 115	Beginning Darkroom Photography ¹	3
ENGLISH 101	Composition ²	3
MATH 118	General Education Math (or higher) ²	4
Social and Behavioral Sciences course (HD) ²		3
Hours		13
Semester 2		
ART 113	Beginning Digital Photography ¹	3
ART 114	Appreciation Of Photography ¹	3
ENGLISH 102	Composition ²	3
Life Sciences course ²		3
Hours		12

Semester 3

ART 116	Intermediate Black and White Photography (new title for Summer 2021: Intermediate Black and White Photography) ¹	3
ART 117	Beginning Color Photography ¹	3
SPEECH 101	Fundamentals of Speech Communication ^{1,2}	3
Fine Arts & Humanities course ^{2,3}		3
Hours		12

Semester 4

ART 213	Intermediate Digital Photography	3
ART 200-A	Art Projects: Photography ¹	2
Physical Sciences course (with lab) ²		4
Social and Behavioral Sciences course ²		3
Hours		12

Semester 5

ART 270	Photography Portfolio	3
Fine Arts & Humanities course ^{2,3}		3
Fine Arts & Humanities course ^{2,3}		3
Social and Behavioral Sciences course ²		3
Hours		12
Total Hours		61

1

Pathway course

2

General Education course

3

Select from the Humanities courses (p. 399) below

HUM/FINE Course Recommendations

Code	Title	Hours
ART 103	Art Appreciation	3
HUM 105	The New World Of Mass Media	3
HUM 123	Intro To Arts & Ideas	3
FIN ART 104	The World Of The Cinema	3
FIN ART 105	History of Painting, Sculpture & Architecture	3

FIN ART 108	Hist Of Arch Paint Sculp II	3
FIN ART 109	History Of Cinema	3

Physical Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The Physical Education pathway begins your preparation to teach physical education to K-12 students. Physical Education teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Physical Education endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in Physical Education.

This is an **example course sequence** for students interested in pursuing Physical Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

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Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118	General Education Math ¹	4
Fine Arts course ¹		3
EDUC 101	Introduction To Education ²	3
HEALTH 250	Health Education ²	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
BIOLOGY 115 or BIOLOGY 116	Human Biology ¹ or Introduction to Anatomy And Physiology	4
PSYCH 201	General Psychology ¹	3
Select one of the following:		2
PHYS ED 200	Intro to Physical Education ²	
Physical Education course ²		
Physical Education course ²		2
Hours		14
Semester 3		
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
EDUC 102 or EDUC 103	Using Technology in The Class ² or Students With Disabilities in School	3
ANTHRO 202	Cultural Anthropology ²	3
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Humanities course (HD) ¹		
BIOLOGY 107	Nutrition-Consumer Education ²	3
Hours		15
Semester 4		
SPEECH 101	Fundamentals of Speech Communication ¹	3
POL SCI 201	The National Government ¹	3
EDUC 203	Educational Psychology ²	3

Select one of the following:	3
PHIL 107 Ethics ¹	
Fine Arts & Humanities course ¹	
Physical Sciences course ¹	3
Hours	15
Total Hours	60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Physics Education, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The Physics Education pathway begins your preparation to teach physics to high school students. Physics teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Physics endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in physics education.

This is an **example course sequence** for students interested in pursuing Physics Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
EDUC 101	Introduction To Education ²	3
Hours		15
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II ¹	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion ¹	5
ANTHRO 202	Cultural Anthropology ¹	3
Hours		16
Semester 3		
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
PHYSICS 236	Engineering Physics II: Electricity & Magnetism ¹	5
SPEECH 101	Fundamentals of Speech Communication ¹	3
Humanities course (HD) ¹		3
Hours		14
Semester 4		
Fine Arts course ¹		3
MATH 209	Calculus & Analytic Geometry III ¹	5
Select one of the following:		5
CHEM 201	General Chemistry I ²	
Physics course ²		
POL SCI 201	The National Government ²	3
Hours		16
Total Hours		61

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Physics, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

This is an **example course sequence** for students interested in pursuing Physics. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ²	5
Social and Behavioral Sciences course (HD) ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II ¹	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion ¹	5
Fine Arts course ¹		3
Hours		16
Semester 3		
MATH 209	Calculus & Analytic Geometry III ²	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism ¹	5

SPEECH 101	Fundamentals of Speech Communication ¹	3
Humanities course ¹		3
Hours		16
Semester 4		
Social and Behavioral Sciences course ¹		3
MATH 210	Differential Equations ²	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics ²	5
Life Sciences course ¹		3
Hours		14
Total Hours		62

¹

General Education Requirement

²

Pathway Elective

Choose your courses with your College Advisor.

Political Science, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

Whether they're conservative or liberal, cynical or idealistic, one common characteristic among students interested in political science and government is their addiction to politics. If active engagement in the political system is for you, a political science emphasis is a great way to get started. Those interested in political science and government study the systems people set up to organize their societies, from neighborhoods to nations. If you are interested in a career in government, law, public policy, civic leadership, campaign organizing or even becoming the next president—political science might be just the ticket.

This is an **example course sequence** for students interested in pursuing Political Science. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118	General Education Math (or higher Mathematics course) ¹	4
Fine Arts course ¹		3
SOC SCI 102	General Course II Social Science ¹	3

POL SCI 201	The National Government ¹	3
Hours		16
Semester 2		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Physical Sciences course ¹		4
Humanities course ¹		3
POL SCI 204	International Relations (HD) ¹	3
Pathway Elective (p. 406) ²		3
Hours		16
Semester 3		
Life Sciences course ¹		4
ENGLISH 102	Composition ¹	3
Pathway Elective (p. 406) ²		3
Pathway Elective (p. 406) ²		3
Pathway Elective (p. 406) ²		3
Hours		16
Semester 4		
Fine Arts & Humanities course ¹		3
Pathway Elective (p. 406) ²		3
Pathway Elective (p. 406) ²		3
Pathway Elective (p. 406) ²		3
Hours		12
Total Hours		60

¹

General Education Requirement

²

Pathway Elective (p. 406)

Pathway ElectivesS

Code	Title	Hours
ANTHRO 202	Cultural Anthropology (HD)	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
GEOG 101	World Geography (HD)	3
POL SCI 200	Principles of Political Science	3

POL SCI 202	Urban Government & Politics	3
POL SCI 203	Comparative Government (HD)	3
POL SCI 205	Public Administration	3
POL SCI 206	American Foreign Policy (HD)	3
POL SCI 207	U.S. State & Local Government	3
POL SCI 211	Analysis Of White Racism (HD)	3
SOC SCI 101	General Course I Social Science	3
SOC 201	Intro To the Study Of Society (HD)	3
World Languages courses		

Choose your courses with your College Advisor.

Pre-Aviation, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

The sky's the limit with our pre-aviation pathway. Whether you're following your dream of flying a plane or helicopter, working in aviation technology or air traffic control, the pre-aviation pathway gets you off the runway. With your associate degree, you can transfer to a four-year college, earn your bachelor's degree and start a career in the airline industry, military, helicopter news reporting, or aerospace technology.

This is an **example course sequence** for students interested in pursuing Aviation. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Please visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
AFRO AM 101	Introduction to African-American Studies (HD) ¹	3
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ^{1,2}	5
PHY SCI 118	Introduction to Meteorology ¹	4
Hours		15
Semester 2		
ECON 201	Principles Of Economics I ¹	3

ENGLISH 102	Composition ¹	3
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion ¹	5
SPEECH 101	Fundamentals of Speech Communication ¹	3
Hours		14
Semester 3		
ECON 202	Principles Of Economics II ¹	3
MATH 208	Calculus & Analytic Geometry II ¹	5
PHIL 107	Ethics ¹	3
PHYSICS 236	Engineering Physics II: Electricity & Magnetism ³	5
Hours		16
Semester 4		
BIOLOGY 114	General Education Biology ¹	4
MATH 209	Calculus & Analytic Geometry III ³	5
PSYCH 201	General Psychology ³	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics ³	5
Hours		17
Total Hours		62

¹

General Education Requirement

²

ALEKS-based placement **or** prerequisite: MATH 140 College Algebra / MATH 141 Plane Trigonometry **or** MATH 143 Pre Calculus

³

Pathway Elective

Choose your courses with your College Advisor.

Psychology, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The psychology pathway examines the way humans feel, think, and learn. Today's psychologists study all sorts of fascinating questions, such as: Why is learning a language as an infant easier than as a teenager? What are the roots of violence? What is the best way to help someone with depression, or grief? But psychologists also look on the bright side. They encourage, coach and motivate people to change their lives for the better.

This is an **example course sequence** for students interested in pursuing Psychology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
PSYCH 201	General Psychology ¹	3
Social and Behavioral Sciences course ¹		3
Elective ²		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Life Sciences course ¹		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
Fine Arts course ¹		3
Select one of the following:		3
PSYCH 213	Abnormal Psychology ²	
Pathway Elective (p. 410) ²		
Hours		16
Semester 3		
Physical Sciences course ¹		4
Fine Arts & Humanities course ¹		3
Select one of the following:		3
PSYCH 207	Child Psychology ²	
Pathway Elective (p. 410) ²		
World Language course ²		4
Hours		14
Semester 4		
Social and Behavioral Sciences course (HD) ¹		3
World Language course ²		4
Humanities course ¹		3
Select one of the following:		3
PSYCH 211	Social Psychology ²	
Pathway Elective (p. 410) ²		
Pathway Elective (p. 410) ²		3
Hours		16
Total Hours		62

1

General Education Requirement

2

Pathway Elective (p. 410)

Pathway ElectivesS

Code	Title	Hours
PSYCH 206	Business & Industrial Psychology	3
PSYCH 207	Child Psychology	3
PSYCH 211	Social Psychology (HD)	3
PSYCH 213	Abnormal Psychology	3
PSYCH 215	Psychology Of Personality	3
PSYCH 222	Adult Development And Aging	3
PSYCH 223	Death, Dying & Bereavement	3
PSYCH 224	Life Span Developmental Psychology	3
PSYCH 240	Research and Statistical Methods in the Behavioral Sciences	3
PSYCH 299	Special Topics in Psychology	6
Any Anthropology course		3
Any Criminal Justice course		3
Any Political Science course		3
Any Sociology course		3
World Languages courses		

Choose your courses with your College Advisor.

Social Science Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The Social Science Education pathway begins your preparation to teach Social Science to high school students. Social Science teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Social Science endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in Social Science education.

This is an **example course sequence** for students interested in pursuing Social Science Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹ Fine Arts & Humanities course ¹	
EDUC 101	Introduction To Education ²	3
SOC SCI 102	General Course II Social Science ¹	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Select one of the following:		3
HUM 205	World Literature I ¹ Humanities course ¹	
HISTORY 111 or HISTORY 112	History of American People To 1865 ¹ or History of American People From 1865	3
POL SCI 201	The National Government ¹	3
Select one of the following:		3
EDUC 102	Using Technology in The Class ² Social and Behavioral Sciences course ²	
Hours		15
Semester 3		
SPEECH 101	Fundamentals of Speech Communication ¹	3
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
EDUC 203	Educational Psychology ²	3
Social and Behavioral Sciences course ²		3
Social and Behavioral Sciences course ²		3
Hours		16

Semester 4

Select one of the following:	3
EDUC 103 Students With Disabilities in School ²	
Social and Behavioral Sciences course ²	
Fine Arts course ¹	3
Physical Sciences course ¹	3
Social and Behavioral Sciences course ²	3
Social and Behavioral Sciences course ²	3
Hours	15
Total Hours	62

1

General Education Requirement

2

Pathway Elective (p. 412)

Pathway Elective

Code	Title	Hours
ANTHRO 202	Cultural Anthropology	3
ECON 201	Principles Of Economics I	3
HISTORY 115	Afro-American History Since 1865	3
HISTORY 141	History of World Civilization to 1500	3
HISTORY 215	History of Latin America	3
POL SCI 201	The National Government	3
PSYCH 201	General Psychology	3
PSYCH 211	Social Psychology	3
PSYCH 213	Abnormal Psychology	3
SOC SCI 101	General Course I Social Science	3
SOC SCI 102	General Course II Social Science	3
SOC 201	Intro To the Study Of Society	3
SOC 205	Social Problems	3
SOC 211	Race & Ethnic Relations (HD)	3

Choose your courses with your College Advisor.

Social Work, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Social Work. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
PSYCH 201	General Psychology ¹	3
Hours		14
Semester 2		
ENGLISH 102	Composition ¹	3
SOC 201	Intro To the Study Of Society ¹	3
PHIL 107	Ethics ¹	3
Physical Sciences course ¹		4
Pathway Elective (p. 413) ²		3
Hours		16

Semester 3

SPEECH 101	Fundamentals of Speech Communication ¹	3
Fine Arts course ¹		3
ANTHRO 202	Cultural Anthropology (HD) ¹	3
Pathway Elective (p. 413) ²		3
Pathway Elective (p. 413) ²		3
Hours		15

Semester 4

Fine Arts & Humanities course ¹		3
Pathway Elective (p. 413) ²		3
Pathway Elective (p. 413) ²		3
Pathway Elective (p. 413) ²		3
Elective ²		3
Hours		15
Total Hours		60

1

General Education Requirement

2

Pathway Elective (p. 413)

Pathway ElectivesS

Code	Title	Hours
PSYCH 211	Social Psychology (HD)	3
PSYCH 224	Life Span Developmental Psychology	3
Any Psychology course		3
SOC SER 101	Introduction To Social Work	3
Any Sociology course		3

Choose your courses with your College Advisor.

Sociology, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Sociology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
SOC SCI 101	General Course I Social Science ¹	3
Pathway Elective (p. 414) ²		3
Fine Arts course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
BIOLOGY 114	General Education Biology ¹	4
SOC 201	Intro To the Study Of Society (HD) ¹	3
Pathway Elective –Sociology (p. 414) ²		3
Pathway Elective (p. 414) ²		3
Hours		16

Semester 3

SPEECH 101	Fundamentals of Speech Communication ¹	3
HUM 201	General Course I Humanities ¹	3
PSYCH 201	General Psychology ¹	3
Pathway Elective (p. 414) ²		3
Pathway Elective (p. 414) ²		3
Hours		15

Semester 4

PHIL 106	Introduction To Philosophy ¹	3
PHY SCI 101	General Course Physical Science ¹	3
Pathway Elective –Sociology (p. 414) ²		3
Pathway Elective –History (p. 414) ²		3
Elective		3
Hours		15
Total Hours		62

1

General Education Requirement

2

Pathway Elective (p. 414)

Pathway Electives

Code	Title	Hours
ANTHRO 202	Cultural Anthropology (HD)	3
CHEM 201	General Chemistry I	5
RELIGN 106	Comparative Religion I/Eastern Religion (HD)	3
HISTORY 215	History of Latin America (HD)	3
MATH 204	Calculus For Business & Social Sciences ¹	4
SOC 202	Sociology Of Urban Life	3
SOC 203	Marriage And The Family	3
SOC 205	Social Problems	3
SOC 207	The Sociology Of Sex & Gender (HD)	3
SOC 210	Diverse Cultures/Global Age (HD)	3

SOC 211	Race & Ethnic Relations (HD)	3
SOC 280	Human Relations (HD)	3

1

Prerequisite: MATH 140 College Algebra

Choose your courses with your College Advisor.

Spanish Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The Spanish Education pathway begins your preparation to teach Spanish to K-12 students. Spanish teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Spanish endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in Spanish education.

This is an **example course sequence** for students interested in pursuing Spanish Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 118 or MATH 125	General Education Math ¹ or Introductory Statistics	4
Fine Arts course ¹		3
EDUC 101	Introduction To Education ²	3
Spanish course ²		4
Hours		17
Semester 2		
ENGLISH 102	Composition ¹	3
Select one of the following:		3
PSYCH 201	General Psychology ¹	
Social and Behavioral Sciences course ¹		
Spanish course ²		4
EDUC 203	Educational Psychology ²	3
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Fine Arts & Humanities course (HD) ¹		
Hours		16
Semester 3		
BIOLOGY 114 or BIOLOGY 115	General Education Biology ¹ or Human Biology	4
POL SCI 201	The National Government ¹	3
Spanish course ²		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
Hours		14
Semester 4		
Select one of the following:		3

HUM 143	Intro to Latin American/Latino Studies ¹	
SPANISH 213	Intro To Modern Literature Spanish ¹	
SPANISH 214	Readings In Literature Spanish ¹	
Physical Sciences course ¹		3
Spanish course ²		4
Select one of the following:		3
HISTORY 142	Hist World Civiliz Frm 1500 ¹	
HISTORY 215	History of Latin America ¹	
World or Latin History course ¹		
<hr/>		
	Hours	13
<hr/>		
	Total Hours	60

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Special Education, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

The Special Education pathway begins your preparation to teach Special Education to K-12 students. Special Education teachers are also required to earn a bachelor's degree from an accredited program and obtain a Professional Educators License with a Special Education endorsement from the Illinois State Board of Education. Get started now by earning your associate degree from City Colleges, transfer to a four-year teacher certification program as a junior, and start a career in Special Education.

This is an **example course sequence** for students interested in pursuing Special Education. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Arts (AA) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

For information regarding teaching, licensure and certification requirements for the State of Illinois, please visit www.isbe.net (<http://www.isbe.net>). It is important to note that students must pass Illinois Certification Testing System (ICTS) Test of Academic Proficiency (TAP) test, or have 22 composite ACT score and minimum score of 6 on the Writing portion, or have a composite score of 1110 (evidence-based reading and writing + mathematics = 1110 or higher) and a minimum score of 26 on writing and language for entrance into four-year College of Education institutions.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
Select one of the following:		4
MATH 118	General Education Math ¹	
MATH 125	Introductory Statistics ¹	
MATH 121	Math For Elementary Teachers I ¹	
Fine Arts course ¹		3
EDUC 101	Introduction To Education ²	3
PSYCH 201	General Psychology ¹	3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
ANTHRO 202	Cultural Anthropology ²	3-4
or MATH 121	or Math For Elementary Teachers I	
PSYCH 207	Child Psychology ²	3
CHLD DV 101	Human Growth & Development I ²	4
Hours		13-14
Semester 3		
BIOLOGY 115	Human Biology ¹	4
or BIOLOGY 115	or Human Biology	
Select one of the following:		3
HUM 145	Intro to Diversity/Ethnic Studies (HD) ¹	
Humanities course (HD) ¹		
CHLD DV 102	Human Growth & Development II ²	3
HISTORY 111	History of American People To 1865 ¹	3
or HISTORY 112	or History of American People From 1865	
POL SCI 201	The National Government ¹	3
Hours		16
Semester 4		
SPEECH 101	Fundamentals of Speech Communication ¹	3
Select one of the following:		3
PHIL 107	Ethics ¹	

Fine Arts & Humanities course ¹		
Physical Sciences course ¹		3
CHLD DV 205	Development of Exceptional Child ²	3
EDUC 203	Educational Psychology ²	3
Hours		15
Total Hours		60-61

1

General Education Requirement

2

Pathway Elective

Choose your courses with your College Advisor.

Systems Engineering and Design, Associate in Engineering Science



College(s): DA, HW, TR, WR

Program Code: 0100

Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 207	Calculus & Analytic Geometry I ¹	5
CHEM 201	General Chemistry I ¹	5
Social and Behavioral Sciences course ^{1,2}		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CHEM 203	General Chemistry II ³	5
Hours		18
Semester 3		
MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
ENGR 190	Computer Programming for Engineers	3
or CIS 142	or C++ Object Oriented Programming I	
PHYSICS 215	Statics ³	3
Hours		16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ^{1,2}		3
PHYSICS 216	Dynamics ³	3
PHYSICS 217	Mechanics Of Materials ³	3

Pathway Elective (p. 420) ³	3
Hours	15
Total Hours	65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 420)

Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

Theater Art, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

If you've ever acted in a play, you know how much work it takes to put a production together. A theater pathway is your ticket to every corner of the theater world. Whether you specialize in acting or design, you'll learn in class, backstage, and onstage. You'll read, discuss, and write about all kinds of theatrical works. You'll also get your hands dirty applying what you learn in class as you build sets, design costumes, direct, or act in department productions.

This is an **example course sequence** for students interested in pursuing Theater Art. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3

Select one of the following:	4
MATH 118 General Education Math ¹	
MATH 125 Introductory Statistics ¹	
Other Mathematics general education course	
Select one of the following:	3
THR ART 131 Intro To Theater ¹	
THR ART 134 Theater Diversity in the U.S. (HD) ¹	
Select one of the following:	3
THR ART 133 Acting I ²	
Program Elective ²	
Select one of the following:	3
THR ART 130 Stagecraft ²	
SPEECH 143 Training The Speaking Voice ²	
THR ART 242 Improvisational Theater Workshop ²	
Pathway Elective (p. 422) ²	
Hours	16

Semester 2		
ENGLISH 102 Composition ¹	3	
Life Sciences course or Physical Sciences course ¹	4	
SPEECH 101 Fundamentals of Speech Communication ¹	3	
Select one of the following:	3	
THR ART 235 Acting II ²		
THR ART 137 Stage Lighting ²		
Pathway Elective (p. 422) ²		
Fine Arts & Humanities course or Social and Behavioral Sciences course ¹	3	
Hours	16	

Semester 3		
Life Sciences course or Physical Sciences course ¹	4	
Select one of the following:	2-4	
THR ART 136 Stage Make-up ²		
THR ART 132 Theater Production, Direction & Management ²		
SPEECH 144 Oral Reading & Interpretation ²		
Pathway Elective (p. 422) ²		
Pathway Elective (p. 422) ²	3-4	
Fine Arts & Humanities course or Social and Behavioral Sciences course ¹	3	
Select one of the following:	3	
THR ART 242 Improvisational Theater Workshop ²		

Pathway Elective (p. 422) ²		
	Hours	15-18
Semester 4		
Social and Behavioral Sciences course ¹		3
Social and Behavioral Sciences course ¹		3
Select one of the following:		3
THR ART 131	Intro To Theater ¹	
THR ART 134	Theater Diversity in the U.S. (HD) ¹	
LIT 112	Drama ¹	
LIT 211	Shakespeare ¹	
Select one of the following:		3
SPEECH 144	Oral Reading & Interpretation ²	
THR ART 232	Theater Workshop ²	
Pathway Elective (p. 422) ²		3-4
	Hours	15-16
	Total Hours	62-66

1

General Education Requirement

2

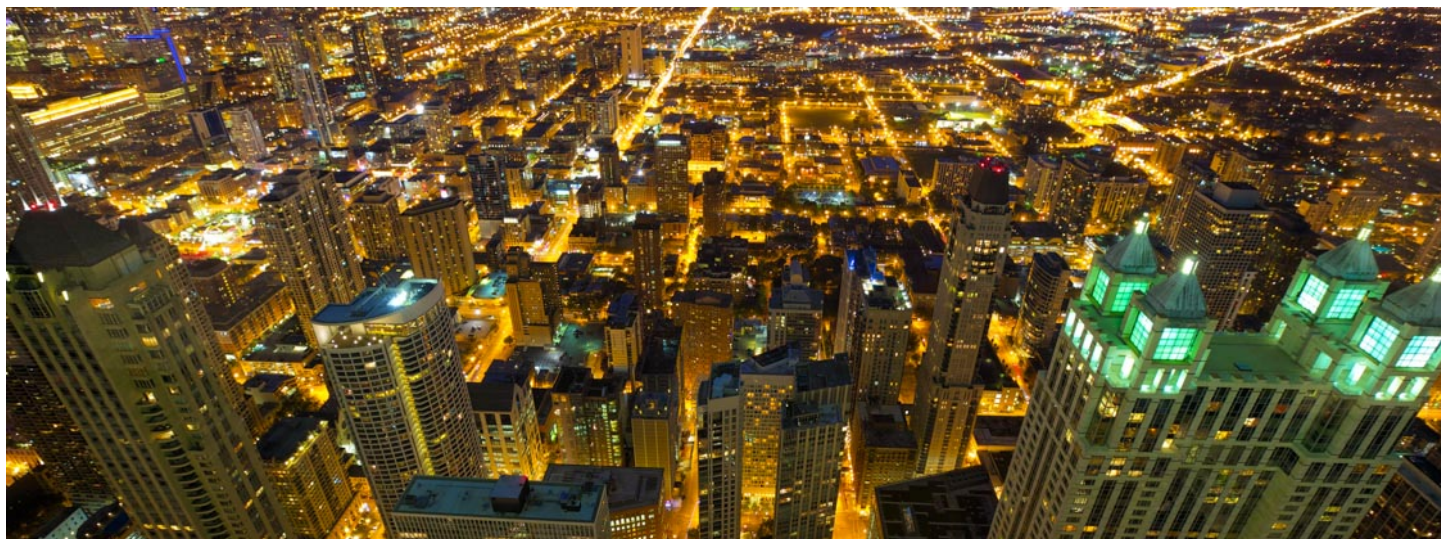
Pathway Elective (p. 422)

Pathway Elective

Code	Title	Hours
THR ART 130	Stagecraft	3
THR ART 132	Theater Production, Direction & Management	4
THR ART 133	Acting I	3
THR ART 136	Stage Make-up	2
THR ART 137	Stage Lighting	3
THR ART 232	Theater Workshop	3
THR ART 235	Acting II	3
THR ART 242	Improvistional Theater Workshop	3
SPEECH 143	Training The Speaking Voice	3
SPEECH 144	Oral Reading & Interpretation	3
PHYS ED 146	Contemporary Dance I	1-2
PHYS ED 148	Contemporary Dance II	1-2
PHYS ED 150	Ballet	1-2
World Language courses		

Choose your courses with your College Advisor.

Urban Studies, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

This is an **example course sequence** for students interested in pursuing Urban Studies. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

As of July 2014, World Language courses are no longer a degree requirement. In the sequence below, World Language courses are called out as suggested electives. Please talk with your College Advisor to determine the best education plan for you.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
MATH 125	Introductory Statistics ¹	4
SOC 201	Intro To the Study Of Society ¹	3
HISTORY 117	History Of Chicago Metropolitan Area ¹	3
Fine Arts & Humanities course ¹		3
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
SOC 202	Sociology Of Urban Life ²	3

POL SCI 201	The National Government ¹	3
Fine Arts course ¹		3
World Languages course ²		4
Hours		16
Semester 3		
ECON 202	Principles Of Economics II ²	3
GEOG 101	World Geography ²	3
World Languages course ²		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
GEOLOGY 201	Physical Geology ¹	4
Hours		17
Semester 4		
ARCHITC 105	History Of Architecture II ²	3
BIOLOGY 119	Environmental Biology ¹	4
Fine Arts & Humanities course ¹		3
POL SCI 207	U.S. State & Local Government ²	3
Hours		13
Total Hours		62

1

General Education Requirement

2

Pathway Elective (p. 423)

Pathway Elective

Code	Title	Hours
ARCHITC 105	History Of Architecture II	3
ECON 202	Principles Of Economics II	3
GEOG 101	World Geography	3
POL SCI 207	U.S. State & Local Government	3
SOC 202	Sociology Of Urban Life	3
World Languages course		4

Choose your courses with your College Advisor.

Web Development, Associate in Science



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

Pathway

This is an **example course sequence** for students interested in pursuing Web Development. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement. Following this pathway will help you get your associate degree, which will increase your chances of transfer to bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
CIS 101	Computer Science 101 ²	3
CIS 181	Web Development I/Basic Web Technologies ²	3
Life Sciences course ¹		3
MATH 146	Discrete Mathematics ¹	4
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Humanities course ^{1,3}		3
CIS 144	Java Object Oriented Programming I ²	3
Physical Sciences course ¹		3
CIS 182	Web Development II/Client Side Scripting ²	3
Hours		15

Semester 3

SPEECH 101	Fundamentals of Speech Communication ¹	3
Social and Behavioral Sciences course ^{1,3}		3
Fine Arts course ^{1,3}		3
CIS 281	Web Development III/Server Side Programming ²	3
CIS 244	Java Object Oriented Programming II ²	3
Hours		15

Semester 4

Physical Sciences or Life Sciences course ¹		4
Social and Behavioral Sciences course ^{1,3}		3
MATH 125	Introductory Statistics ¹	4
CIS 282	Web Development IV/Web Database Integration ²	3
Hours		14
Total Hours		60

1

General Education Requirement

2

Pathway Elective

3

One course must satisfy the Human Diversity (HD) requirement

Choose your courses with your College Advisor.

World Languages, Associate in Arts



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0210

Pathway

If you'd love to change the world, but you don't know what to do—speak its languages! In this interdisciplinary pathway you will have the chance to study everything from Communications to Fine Art, human behavior to geography and anthropology, political science to philosophy—and of course, the languages the world speaks. In our global economy, this pathway is the first step toward a bachelor's degree which will prepare you for a career in international business, banking, government service, interpreting, or travel. World language study is also vital to jobs in healthcare professions like nursing, emergency services, criminal justice and social work.

This is an **example course sequence** for students interested in pursuing World Languages. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an AA degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit www.itransfer.org (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

We strongly recommend that you complete the language sequence in consecutive semesters. If you wait a semester or more for the second course, you risk not being able to continue as prepared as possible in your language of interest.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
ENGLISH 101	Composition ¹	3
Humanities course ¹		3
Fine Arts course ¹		3
Social and Behavioral Sciences course ¹		3
World Language course ²		4
Hours		16
Semester 2		
ENGLISH 102	Composition ¹	3
Social and Behavioral Sciences course (HD) ¹		3
Life Sciences course ¹		4
SPEECH 101	Fundamentals of Speech Communication ¹	3
World Language course ²		4
Hours		17
Semester 3		
World Language course ²		4
MATH 118	General Education Math (or higher Mathematics course) ¹	4
Fine Arts & Humanities course ¹		3
Culture or History course relevant to language study ²		3
Hours		14
Semester 4		
World Language course ²		4
Physical Sciences course ¹		3
Social and Behavioral Sciences course ¹		3
Any 200-level course in the language of study ²		3
Hours		13
Total Hours		60

1

General Education requirement

2

Pathway Elective (p. 426)

Pathway Electives

Choose electives based on the recommendations of your top transfer institution.

City Colleges of Chicago offers courses in the following languages:

- Arabic: DA, OH, TR, WR
- Chinese: HW, MX
- French: DA, HW, KK, MX, OH, TR, WR
- Italian: DA, HW
- Japanese: HW
- Latin: KK, WR
- Polish: WR
- Spanish: DA, HW, KK, MX, OH, TR, WR

Choose your courses with your College Advisor.

SUBJECT CODES

CCC Course Subject Codes

The table below lists every subject currently found in the Credit Course Descriptions section of this Academic Catalog, along with their corresponding prefix code and ICCB numeric code.

SUBJECT	SUBJ PREFIX CODE	ICCB NUMERIC CODE
Africana Studies	AFRO AM	0117
Air Conditioning	AIR CON	0094
Anthropology	ANTHRO	0081
Arabic	ARABIC	0144
Architecture	ARCHITC	0005
Art	ART	0010
Astronomy	ASTROMY	0071
Automotive Technology	AUTOTEC	0105
Aviation	AVIATN	0338
Baking & Pastry	330BKPS	0330
Biology	BIOLOGY	0023
Botany	BOTANY	0025
Business	BUSINES	0030
Business and CommercialTechTC1	330BSCM	0330
CAD Technology	CAD TEC	0049
Cannabis	CANBS	0339
Chemistry	CHEM	0073
Child Development	CHLD DV	0090
Chinese	CHINESE	0141
Communication Design	COM DSGN	0009
Communication Media	CMMEDIA	0004
Community Health Care Worker	CHW	0335
Comparative Religion	RELIGN	0133
Computer Information Systems	CIS	0032
Construction Management	432CMGT	0432
Construction Materials Technic	432CNMT	0432
Cooperative Work Experience	COOP EX	0008
Cosmetology	COSMET	0163
Criminal Justice	CRM JUS	0080
Culinary	330CUL	0330
Cybersecurity	COMPFSI	0162
Dance	DANCE	0097
Dental Hygiene	DENTHYG	0100
Digital Multimedia	DMD	0138
Economics	ECON	0082
Education	EDUC	0083
Electronics	ELECTRN	0033
Emergency Medical Technician	EMT	0120
Engineering	ENGR	0034
English	ENGLISH	0035
Entrepreneurship	ENTRE	0143
Environment Studies	ENVR ST	0026
Environment Technology	ENVR TC	0027

ESL (Integrated)	ESLINTG	0136
ESL Reading	ESLREAD	0137
ESL Speech	ESLSPCH	0195
Exercise Sci and Sports Studies	ESSS	0147
Fine Arts	FIN ART	0042
Fire Sci Mgmt/Fire Serv Op	FIREMGT	0152
Food Service Administration	FOODSRV	0038
Foundational Studies ESL	FS ESL	0840
Foundational Studies Math	FS MATH	0830
Foundational Studies Reading	FS READ	0810
Foundational Studies Writing	FS WRIT	0820
French	FRENCH	0051
Game Design and Development	GAME	0331
Geography	GEOG	0084
Geology	GEOLOGY	0075
Health	HEALTH	0001
Health Information Technology	HIT	0145
Health Professions	HEAPRO	0146
Health Science	HLH SCI	0124
Health Technology TC4	334HLTH	0334
History	HISTORY	0085
Horticulture	HORTIC	0096
Hospitality Management	HMGT	0330
Human Dev and Family Studies	HDFS	0168
Humanities	HUM	0041
IBEW	432IBEW	0432
Integrated Communication	INTCOMM	0139
Interdisciplinary Studies	INTDSP	0104
Italian	ITALIAN	0052
Japanese	JAPANES	0054
Latin Courses	LATIN	0142
Library & Information Science	LIS	0039
Library Technology	LIB TEC	0050
Linguistics	LING	0132
Literature	LIT	0036
Logistics/Transportation/Distr	330TRNS	0330
Manufacturing Tech TC1	340MFGT	0340
Massage Therapy	MAS	0149
Mathematics	MATH	0045
Media Communication	MEDIACM	0011
Medical Assisting	MEDASST	0153
Mental Health	MENHLTH	0118
Microbiology	MCROBIO	0024
Mortuary Science	MOR SCI	0128
Music	MUSIC	0060
Networking Technologies	NET TEC	0165
Nursing	NURSING	0063
Occupational Therapy Assistant	OTA	0122
Oceanography	OCEAN	0070
Paralegal	PARALEG	0337
Pharmacy Technology	PHAR TC	0062

Phi Theta Kappa	PTKAPPA	0131
Philosophy	PHIL	0043
Phlebotomy	PHLEB	0113
Physical Education	PHYS ED	0065
Physical Science	PHY SCI	0076
Physical Therapist Assistant	PTA	0151
Physics	PHYSICS	0077
Polish	POLISH	0046
Political Science	POL SCI	0086
Process Technology	340PRTE	0340
Psychiatric Rehabilitation	PS REHB	0134
Psychology	PSYCH	0087
Radiography	RADIOGR	0021
Reading	READING	0037
Respiratory Therapy	RESP TC	0061
Short Term Health	STHLTH	0500
Short Term Trd/Indstrl/Trnsprt	STTRDE	0504
Short Trm Busn/Profession Srvc	STBPS	0502
Social Science	SOC SCI	0088
Social Service	SOC SER	0091
Sociology	SOC	0089
Spanish	SPANISH	0057
Speech	SPEECH	0095
Supply Chain Mgmt & Logistics	SCML	0333
Surgical Technology	SURG TC	0016
Technology 332	332TECH	0332
Theater Art	THR ART	0099
Zoology	ZOOLOGY	0029

GENERAL EDUCATION COURSES

Communications

Code	Title	Hours
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
SPEECH 101	Fundamentals of Speech Communication	2-3

Fine Arts

Code	Title	Hours
AFRO AM 101	Introduction to African-American Studies	3
ART 103	Art Appreciation	3
ART 112	Experiences in African American Art	3
ART 130	African-American Art	3
CMEDIA 163	Film Rhetoric	3
FIN ART 103	Theater Arts	3
FIN ART 104	The World Of The Cinema	3
FIN ART 105	History of Painting, Sculpture & Architecture	3
FIN ART 107	History of Architecture, Painting & Sculpture I	3
FIN ART 108	Hist Of Arch Paint Sculp II	3
FIN ART 109	History Of Cinema	3
FIN ART 110	Opera And The Humanities	3
FIN ART 111	History of Photography	3
FIN ART 112	Dance Appreciation	3
FIN ART 114	Film History I	3
FIN ART 115	Film History II	3
HUM 123	Intro To Arts & Ideas	3
HUM 143	Intro to Latin American/Latino Studies	3
HUM 144	Introduction to Women's and Gender Studies	3
HUM 145	Intro to Diversity/Ethnic Studies	3
HUM 146	Gay, Lesbian, Bisexual & Transgender	3
HUM 201	General Course I Humanities	3
HUM 202	General Course II Humanities	3
HUM 203	Arts of Contemporary America	3
HUM 208	Women In Creative-Performing Arts	3
HUM 209	Latinxs in Chicago	3
HUM 212	Non-Western Humanities	3
HUM 215	The Art and Philosophy of the African Continent	3
LIT 155	Literature and Film	3
MUSIC 101	Fundamentals of Music Theory	3
MUSIC 121	Introduction To Music	3
MUSIC 124	Trends In Mod Amer Music	3
MUSIC 183	World Music	3
MUSIC 221	Music Literature & History	3
SPEECH 131	Introduction To The Theater	3
THR ART 131	Intro To Theater	3
THR ART 134	Theater Diversity in the U.S.	3

Humanities

Code	Title	Hours
AFRO AM 101	Introduction to African-American Studies	3
ARABIC 104	Intermediate Arabic II	4
CHINESE 104	Chinese IV	4
FRENCH 104	Fourth Course French	4
FRENCH 206	Intensive Oral Practice French	4
FRENCH 210	Modern Civilization & Culture French	3
FRENCH 213	Intro To Modern Literature French	3
FRENCH 214	Readings In Literature French	3
HUM 105	The New World Of Mass Media	3
HUM 107	Pop Cul-Mirror Of Amer Life	3
HUM 123	Intro To Arts & Ideas	3
HUM 141	Afro-American Arts	3
HUM 143	Intro to Latin American/Latino Studies	3
HUM 144	Introduction to Women's and Gender Studies	3
HUM 145	Intro to Diversity/Ethnic Studies	3
HUM 146	Gay, Lesbian, Bisexual & Transgender	3
HUM 201	General Course I Humanities	3
HUM 202	General Course II Humanities	3
HUM 203	Arts of Contemporary America	3
HUM 205	World Literature I	3
HUM 206	World Literature II Existentialism	3
HUM 207	The Great Books	3
HUM 208	Women In Creative-Performing Arts	3
HUM 209	Latinxs in Chicago	3
HUM 210	Comparative Mythology	3
HUM 212	Non-Western Humanities	3
HUM 215	The Art and Philosophy of the African Continent	3
ITALIAN 104	Fourth Course Italian	4
JAPANES 104	Fourth Course Japanese	4
LIT 110	Introduction To Literature	3
LIT 111	Poetry	3
LIT 112	Drama	3
LIT 113	Fiction	3
LIT 114	Ideas In Prose	3
LIT 115	Great Books Seminar/Topics Literature	3
LIT 116	American Literature from Colonial Days to Civil War	3
LIT 117	American Literature from the Civil War to the 20th Century	3
LIT 118	English Literature from its Beginnings to the Age of Johnson	3
LIT 119	English Literature from the Romantic Revival to the 20th Century	3
LIT 120	Contemporary British & American Literature	3
LIT 121	Contemporary African American Literature	3
LIT 122	Perspectives in Black Literature	3
LIT 123	Literature of the U.S. from the Civil War to the Present	3

LIT 124	Experimental Literature	3
LIT 125	Psychology in Black Literature	3
LIT 126	Contemporary American Literature	3
LIT 127	Contemporary British Literature	3
LIT 128	Latin American Literature	3
LIT 129	U.S. Latino (a) Literature	3
LIT 130	Children's Literature	3
LIT 131	Survey Of Afro-American Poetry	3
LIT 132	Native American Literature	3
LIT 133	African American Fiction	3
LIT 137	The Black Woman In Black Fiction	3
LIT 150	Women's Literature	3
LIT 153	Gay and Lesbian Literature	3
LIT 155	Literature and Film	3
LIT 156	Creative Non-fiction	3
LIT 211	Shakespeare	3
LIT 220	World Literature	3
LIT 223	Intro To Literary Genres	3
LIT 299	Science Fiction: Psychology & Prophecy	3
PHIL 105	Logic	3
PHIL 106	Introduction To Philosophy	3
PHIL 107	Ethics	3
PHIL 108	Philosophy Of Religion	3
PHIL 110	Social/Political Philosophy	3
PHIL 201	Greek Philo To Renaissance	3
PHIL 202	Enlightenment To Present	3
PHIL 215	Problems In Philosophy	3
PHIL 216	Critical Thinking	3
PHIL 225	Philosophy Of Art	3
POLISH 104	Fourth Course Polish	4
RELIGN 101	Introduction To Religion	3
RELIGN 102	The Bible - Hebrew Old Test	3
RELIGN 103	The Bible - New Testament	3
RELIGN 104	Islamic Scriptures: The Qur'an	3
RELIGN 106	Comparative Religion I/Eastern Religion	3
RELIGN 107	Com Rel II Western Religion	3
RELIGN 108	Religion And Psychology	3
SPANISH 104	Fourth Course Spanish	4
SPANISH 111	Spanish For Hispanos	3
SPANISH 113	Spanish For Near Native Speakers I	4
SPANISH 114	Spanish for Near-Native Speakers II	4
SPANISH 206	Intensive Oral Practice Spanish	4
SPANISH 210	Modern Civilization & Culture Spanish	3
SPANISH 213	Intro To Modern Literature Spanish	3
SPANISH 214	Readings In Literature Spanish	3

Fine Arts and Humanities

Code	Title	Hours
AFRO AM 101	Introduction to African-American Studies	3
HUM 123	Intro To Arts & Ideas	3
HUM 143	Intro to Latin American/Latino Studies	3

HUM 144	Introduction to Women's and Gender Studies	3
HUM 145	Intro to Diversity/Ethnic Studies	3
HUM 146	Gay, Lesbian, Bisexual & Transgender	3
HUM 201	General Course I Humanities	3
HUM 202	General Course II Humanities	3
HUM 203	Arts of Contemporary America	3
HUM 208	Women In Creative-Performing Arts	3
HUM 209	Latinxs in Chicago	3
HUM 212	Non-Western Humanities	3
HUM 215	The Art and Philosophy of the African Continent	3
LIT 155	Literature and Film	3

Life Sciences

Code	Title	Hours
BIOLOGY 107	Nutrition-Consumer Education	3
BIOLOGY 109	Human Genetics & Evolution	3
BIOLOGY 113	The Biology Of Women	3
BIOLOGY 114	General Education Biology	4
BIOLOGY 115	Human Biology	4
BIOLOGY 116	Introduction to Anatomy And Physiology	4
BIOLOGY 119	Environmental Biology	4
BIOLOGY 121	Biology I	5
BIOLOGY 122	Biology II	5
BOTANY 201	General Botany I	4
ENVR ST 101	Man & Environment I	3
ZOOLOGY 211	General Zoology	4

Mathematics

Code	Title	Hours
MATH 118	General Education Math	4
MATH 121	Math For Elementary Teachers I	4
MATH 122	Math For Elementary Teachers II	4
MATH 125	Introductory Statistics	4
MATH 127	Geometry/Trigonometry for Middle School Teachers	4
MATH 140	College Algebra	4
MATH 141	Plane Trigonometry	3
MATH 144	Finite Mathematics	4
MATH 146	Discrete Mathematics	4
MATH 204	Calculus For Business & Social Sciences	4-5
MATH 207	Calculus & Analytic Geometry I	5
MATH 208	Calculus & Analytic Geometry II	5
MATH 209	Calculus & Analytic Geometry III	5

Physical Sciences

Code	Title	Hours
ASTROMY 201	Descriptive Astronomy	3
ASTROMY 203	The Solar System	4
CHEM 121	Basic Chemistry I	4
CHEM 201	General Chemistry I	5
ENVR TC 107	Environmental Geology	3

GEOG 201	Physical Geography	3	POL SCI 200	Principles of Political Science	3
GEOLOGY 201	Physical Geology	4	POL SCI 201	The National Government	3
OCEAN 101	Intro To Oceanography	3	POL SCI 202	Urban Government & Politics	3
PHY SCI 101	General Course Physical Science	3	POL SCI 203	Comparative Government	3
PHY SCI 102	General Course Physical Science	3	POL SCI 204	International Relations	3
PHY SCI 107	Current Public Issues in Physical Science	3	POL SCI 205	Public Administration	3
PHY SCI 111	General Course I Physical Science	4	POL SCI 206	American Foreign Policy	3
PHY SCI 112	General Course II Physical Science	4	POL SCI 207	U.S. State & Local Government	3
PHY SCI 118	Introduction to Meteorology	4	POL SCI 211	Analysis Of White Racism	3
PHYSICS 131	Mechanics And Power	3	POL SCI 215	Politics Of Community Organization	3
PHYSICS 220	Physics Calculations & Practice	2	PSYCH 201	General Psychology	3
PHYSICS 221	Mechanics, Waves, and Heat	5	PSYCH 203	The Psychology of Women	3
PHYSICS 231	General Physics I: Mechanics & Wave Motion	4	PSYCH 205	Applied Psychology	3
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	PSYCH 206	Business & Industrial Psychology	3
			PSYCH 207	Child Psychology	3
			PSYCH 208	Psychology of Exceptional Children	3
			PSYCH 209	Black Psychology	3
			PSYCH 211	Social Psychology	3
			PSYCH 214	Adolescent Psychology	3
			PSYCH 222	Adult Development And Aging	3
			PSYCH 224	Life Span Developmental Psychology	3
			SOC 110	Religion And Society	3
			SOC 201	Intro To the Study Of Society	3
			SOC 202	Sociology Of Urban Life	3
			SOC 203	Marriage And The Family	3
			SOC 205	Social Problems	3
			SOC 207	The Sociology Of Sex & Gender	3
			SOC 209	The Black Man In The U S	3
			SOC 211	Race & Ethnic Relations	3
			SOC 241	Institutional Racism	3
			SOC 280	Human Relations	3
			SOC SCI 101	General Course I Social Science	3
			SOC SCI 102	General Course II Social Science	3
			SOC SCI 105	American Social Issues	3
			SOC SCI 106	North & South American Social Development	3
			SOC SCI 221	Black Economics	3

Social and Behavioral Sciences

Code	Title	Hours
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans	3
ANTHRO 202	Cultural Anthropology	3
ANTHRO 205	Applied Anthropology	3
ANTHRO 206	Introduction to Archaeology	3
ANTHRO 210	North American Archaeology	3
ECON 133	Consumer Economics	3
ECON 201	Principles Of Economics I	3
ECON 202	Principles Of Economics II	3
ECON 204	Money And Banking	3
GEOG 101	World Geography	3
GEOG 102	Economic Geography	3
HISTORY 111	History of American People To 1865	3
HISTORY 112	History of American People From 1865	3
HISTORY 113	United States Labor History	3
HISTORY 114	The Afro-American In American History	3
HISTORY 115	Afro-American History Since 1865	3
HISTORY 117	History Of Chicago Metropolitan Area	3
HISTORY 118	Women In American History	3
HISTORY 141	History of World Civilization to 1500	3
HISTORY 142	Hist World Civiliz Frm 1500	3
HISTORY 211	Problems In History	3
HISTORY 212	History & Culture Of China	3
HISTORY 213	American Civil Rights Movement	3
HISTORY 215	History of Latin America	3
HISTORY 216	U.S. Latinx History	3
HISTORY 225	Modern Middle East History	3
HISTORY 230	Ancient History	3
HISTORY 232	Modern European History 1500-1830	3
HISTORY 233	Modern European History Since 1830	3
HISTORY 243	The Far East in the Modern World	3
HISTORY 247	African History to Colonial Period	3
HISTORY 248	African History - Modern Period	3
HISTORY 250	Topics in American History	3

IAI GECC COURSES

The table below lists every course currently approved at City Colleges of Chicago that meets the Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC).

While CCC tries to maintain the below information to the best of its abilities, it is subject to change. To view the most current listing of IAI courses approved at City Colleges, please visit the individual pages for GECC courses (<http://itransfer.org/courses/gecc/geccpackage.php>) and Major courses (<http://itransfer.org/courses/descriptors.php>) at iTransfer.org (<http://itransfer.org/planning/>).

Course Code	Title	IAI Code	DAH	W	K	MX	OH	TR	WR
AFRO AM 101	Introduction to African-American Studies	H2 909D	X	X	X	X			
AFRO AM 101	Introduction to African-American Studies	HF 906D						X	
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans	S1 900N	X		X				X
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans	S1 902		X		X			X
ANTHRO 202	Cultural Anthropology	S1 901N	X	X	X	X	X	X	X
ANTHRO 205	Applied Anthropology	S1 904D							X
ANTHRO 206	Introduction to Archaeology	S1 903							X
ART 103	Art Appreciation	F2 900	X	X	X	X	X	X	X
ART 130	African-American Art	F2 906D	X			X	X		
ASTROMY 20	Descriptive Astronomy	P1 906	X	X		X		X	X
BIOLOGY 109	Human Genetics & Evolution	L1 907		X					
BIOLOGY 114	General Education Biology	L1 900L	X	X	X	X	X	X	X
BIOLOGY 115	Human Biology	L1 904L	X	X	X	X	X	X	X
BIOLOGY 119	Environmental Biology	L1 905L					X	X	X
BIOLOGY 121	Biology I	L1 910L	X	X	X	X	X	X	X
BIOLOGY 122	Biology II	L1 910L	X	X	X	X	X	X	X
BOTANY 201	General Botany I	L1 901L					X	X	
CHEM 121	Basic Chemistry I	P1 902L	X	X	X	X	X	X	X
CHEM 201	General Chemistry I	P1 902L	X	X	X	X	X	X	X
CHINESE 104	Chinese IV	H1 900					X		
CMMEDIA 163	Film Rhetoric	F2 909							X
ECON 201	Principles of Economics I	S3 901	X	X	X	X	X	X	X
ECON 202	Principles of Economics II	S3 902	X	X	X	X	X	X	X
ENGLISH 101	Composition	C1 900	X	X	X	X	X	X	X
ENGLISH 102	Composition	C1 901R	X	X	X	X	X	X	X
ENVR ST 101	Man & Environment I	L1 905							X
ENVR TC 107	Environmental Geology	P1 908							X
FIN ART 104	The World Of The Cinema	F2 908		X		X			X

FIN ART 105	History of Painting, Sculpture & Architecture	F2 900	X	X					
FIN ART 107	History of Architecture, Painting & Sculpture I	F2 901	X	X	X				X
FIN ART 108	Hist Of Arch Paint Sculp II	F2 902	X	X	X			X	X
FIN ART 109	History of Cinema	F2 909		X					X
FIN ART 110	Opera And The Humanities	F1 910		X					
FIN ART 111	History of Photography	F2 904							X
FIN ART 112	Dance Appreciation	F1 906		X					
FIN ART 114	Film History I	F2 910					X		X
FIN ART 115	Film History II	F2 911					X		X
FRENCH 104	Fourth Course French	H1 900		X					X
FRENCH 213	Intro To Modern Literature French	H3 916		X					X
FRENCH 214	Readings In Literature French	H3 916		X					X
GEOG 101	World Geography	S4 900N	X	X	X	X			X
GEOG 101	World Geography	S4 906			X		X		X
GEOG 102	Economic Geography	S4 903N		X	X				
GEOG 201	Physical Geography	P1 909		X	X				X
GEOLOGY 201	Physical Geology	P1 907L	X	X		X	X	X	X
HISTORY 111	History of American People To 1865	S2 900	X	X	X	X	X	X	X
HISTORY 112	History of American People From 1865	S2 901	X	X	X	X	X	X	X
HISTORY 114	The Afro-American in American History	S2 923D						X	
HISTORY 141	History of World Civilization to 1500	S2 912N	X	X	X	X	X	X	X
HISTORY 142	Hist World Civilz Frm 1500	S2 913N	X	X	X	X	X	X	X
HISTORY 215	History of Latin America	S2 920N	X	X	X	X	X	X	X
HISTORY 216	U.S. Latinx History	S2 923D	X	X	X	X	X	X	X
HISTORY 225	Modern Middle East History	S2 920N		X					
HISTORY 243	The Far East in the Modern World	S2 920N		X	X				
HISTORY 247	African History to Colonial Period	S2 920N	X	X		X	X	X	X
HISTORY 248	African History - Modern Period	S2 920N		X	X	X	X	X	X
HUM 123	Intro To Arts & Ideas	HF 900	X	X					X
HUM 143	Intro To Latin American/Latino Studies	HF 906D		X		X			X
HUM 144	Introduction to Women's and Gender Studies	HF 907D		X		X	X		X
HUM 145	Intro To Diversity/Ethnic Studies	HF 906D		X					X
HUM 146	Gay, Lesbian, Bisexual & Transgender	HF 907D							X

HUM 201	General Course I Humanities	HF 900	X	X	X	X	X	X	X	X	LIT 132	Native American Literature	H3 910D	X
HUM 202	General Course II Humanities	HF 901	X	X	X	X	X	X	X	X	LIT 137	The Black Woman In Black Fiction	H3 911D	X
HUM 203	Arts of Contemporary America	HF 900	X								LIT 150	Women's Literature	H3 911D	X X X X X X X
HUM 205	World Literature I	H3 906	X	X	X		X	X	X		LIT 153	Gay and Lesbian Literature	H3 911D	X
HUM 207	The Great Books	H3 907	X	X	X						LIT 155	Literature and Film	F2 905	X
HUM 208	Women In Creative-Performing Arts	HF 907D	X								LIT 155	Literature and Film	F2 908	
HUM 209	Latinxs in Chicago	HF 906D				X		X	X		LIT 155	Literature and Film	HF 908	X X X X X X
HUM 210	Comparative Mythology	H9 901	X	X	X		X	X			LIT 156	Creative Non-fiction	H3 904	
HUM 212	Non-Western Humanities	HF 904N	X	X	X		X	X			LIT 211	Shakespeare	H3 905	X X X X X X
HUM 215	The Art and Philosophy of the African Continent	HF 904N	X				X				LIT 220	World Literature	H3 906	X
ITALIAN 104	Fourth Course Italian	H1 900	X								MATH 118	General Education Math	M1 904	X X X X X X X
JAPANES 104	Fourth Course Japanese	H1 900	X								MATH 122	Math For Elementary Teachers II	M1 903	X X X X X X X
LIT 110	Introduction To Literature	H3 900	X	X	X	X	X	X	X		MATH 125	Introductory Statistics	M1 902	X X X X X X X
LIT 111	Poetry	H3 903	X	X	X	X	X	X	X		MATH 144	Finite Mathematics	M1 906	X X X X X X
LIT 112	Drama	H3 902	X	X	X	X	X	X	X		MATH 146	Discrete Mathematics	M1 905	X X X X X X X
LIT 113	Fiction	H3 901	X	X	X	X	X	X	X		MATH 204	Calculus For Business & Social Sciences	M1 900-B	X X X X X X X
LIT 114	Ideas In Prose	H3 904	X	X	X						MATH 207	Calculus & Analytic Geometry I	M1 900-1	X X X X X X X
LIT 115	Great Books Seminar/ Topics Literature	H3 907									MATH 208	Calculus & Analytic Geometry II	M1 900-2	X X X X X X X
LIT 116	American Literature from Colonial Days to Civil War	H3 914	X	X							MATH 209	Calculus & Analytic Geometry III	M1 900-3	X X X X X X X
LIT 117	American Literature from the Civil War to the 20th Century	H3 915	X	X	X		X	X			MUSIC 121	Introduction To Music	F1 900	X X X X X X X
LIT 118	English Literature from its Beginnings to the Age of Johnson	H3 912	X								MUSIC 124	Trends In Mod Amer Music	F1 904	X X X X X X X
LIT 119	English Literature from the Romantic Revival to the 20th Century	H3 913	X	X							MUSIC 183	World Music	F1 903N	X X X X X X X
LIT 121	Contemporary African American Literature	H3 910D	X	X	X	X	X	X	X		MUSIC 221	Music Literature & History	F1 900	
LIT 122	Perspectives in Black Literature	H3 910D	X	X							MUSIC 221	Music Literature & History	F1 901	X
LIT 123	Literature of the U.S. from the Civil War to the Present	H3 915					X				OCEAN 101	Intro To Oceanography	P1 905	
LIT 126	Contemporary American Literature	H3 914	X								PHIL 105	Logic	H4 906	X X X X X X X
LIT 126	Contemporary American Literature	H3 915	X	X		X		X	X		PHIL 106	Introduction To Philosophy	H4 900	X X X X X X X
LIT 127	Contemporary British Literature	H3 913									PHIL 107	Ethics	H4 904	X X X X X X X
LIT 128	Latin American Literature	H3 908N	X	X		X		X	X		PHIL 108	Philosophy Of Religion	H4 905	X X X X X X X
LIT 129	U.S. Latino (a) Literature	H3 910D	X	X	X						PHIL 110	Social/Political Philosophy	H4 907	X X X X
LIT 130	Children's Literature	H3 918	X								PHIL 201	Greek Philo To Renaissance	H4 901	X X X X
											PHIL 202	Enlightenment To Present	H4 902	X X X X
											PHIL 215	Problems In Philosophy	H4 900	
											PHIL 216	Critical Thinking	H4 906	X
											PHY SCI 101	General Course Physical Science	P1 905	X
											PHY SCI 101	General Course Physical Science	P9 900	X X X X X X X

PHY SCI 102	General Course Physical Science	P9 900						X	X					
PHY SCI 107	Current Public Issues in Physical Science	P9 900	X	X	X	X								
PHY SCI 111	General Course I Physical Science	P1 905L	X	X										
PHY SCI 111	General Course I Physical Science	P9 900L		X	X	X	X	X						
PHY SCI 112	General Course II Physical Science	P9 900L	X	X	X	X	X	X						
PHY SCI 118	Introduction to Meteorology	P1 905L	X											
PHYSICS 221	Mechanics, Waves, and Heat	P1 900L	X	X	X	X	X	X	X					
PHYSICS 231	General Physics I: Mechanics & Wave Motion	P1 900		X										
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	P2 900L	X				X	X	X					
POL SCI 200	Principles of Political Science	S5 903	X											
POL SCI 201	The National Government	S5 900	X	X	X	X	X	X	X					
POL SCI 203	Comparative Government	S5 905	X	X						X				
POL SCI 204	International Relations	S5 904	X	X	X					X	X			
POL SCI 207	U.S. State & Local Government	S5 902	X	X	X	X								
POLISH 104	Fourth Course Polish	H1 900											X	
PSYCH 201	General Psychology	S6 900	X	X	X	X	X	X	X					
PSYCH 207	Child Psychology	S6 903	X	X	X	X	X	X	X					
PSYCH 211	Social Psychology	S8 900	X	X	X			X	X	X				
PSYCH 214	Adolescent Psychology	S6 904		X						X				
PSYCH 222	Adult Development And Aging	S6 905		X						X	X			
PSYCH 224	Life Span Developmental Psychology	S6 902	X	X				X	X					
RELIGN 101	Introduction To Religion	H5 900		X				X	X					
RELIGN 101	Introduction To Religion	H5 904N								X				
RELIGN 102	The Bible - Hebrew Old Test	H5 901		X			X	X	X					
RELIGN 103	The Bible - New Testament	H5 901		X			X	X	X					
RELIGN 104	Islamic Scriptures: The Qur'an	H5 901								X	X			
RELIGN 106	Comparative Religion/ Eastern Religion	H5 904N	X	X						X	X			
RELIGN 107	Com Rel II Western Religion	H5 904N		X			X	X						
SOC 201	Intro To the Study Of Society	S7 900	X	X	X	X	X	X	X					
SOC 203	Marriage And The Family	S7 902	X	X	X	X	X	X	X					
SOC 205	Social Problems	S7 901	X	X	X			X	X					

SOC 207	The Sociology Of Sex & Gender	S7 904D	X	X			X	X	X	X				
SOC 211	Race & Ethnic Relations	S7 903D						X	X	X				
SOC 241	Institutional Racism	S7 903D		X			X							
SOC SCI 101	General Course I Social Science	S9 900	X	X	X	X	X	X	X	X				
SOC SCI 102	General Course II Social Science	S9 901	X	X	X	X	X	X	X	X				
SPANISH 104	Fourth Course Spanish	H1 900	X	X	X			X	X	X				
SPANISH 111	Spanish For Hispanos	H1 900		X										
SPANISH 210	Modern Civilization & Culture Spanish	H1 900	X	X									X	
SPANISH 213	Intro To Modern Literature Spanish	H3 916		X										
SPANISH 214	Readings In Literature Spanish	H3 916	X	X									X	
SPEECH 101	Fundamentals of Speech Communication	C2 900	X	X	X	X	X	X	X	X				
THR ART 131	Intro To Theater	F1 907	X	X									X	
THR ART 134	Theater Diversity in the U.S.	F1 907	X	X	X								X	
THR ART 134	Theater Diversity in the U.S.	F1 909D	X										X	

IAI Code Legend:

Beginning with:

C: Communications

F: FineArts

H: Hum

HF: Interdisciplinary Hum and FineArts

L: Life Science

P: Physical Science

S: Social & Behavioral Sciences

Ending with:

D: Courses designed specifically to examine aspects of human diversity within the United States.

L: Courses with a lab component

N: Courses designed specifically to examine aspects of human diversity from a non-U.S./non-European perspective.

IAI MAJOR COURSES

The table below lists every course currently approved at City Colleges of Chicago as an Illinois Articulation Initiative (IAI) Majors course.

While CCC tries to maintain the below information to the best of its abilities, it is subject to change. To view the most current listing of IAI courses approved at City Colleges, please visit the individual pages for GECC courses (<http://itransfer.org/courses/gecc/geccpackage.php>) and Major courses (<http://itransfer.org/courses/descriptors.php>) at iTransfer.org (<http://itransfer.org/planning/>).

Course Code	CCC Course Title	IAI_Code	DAH	W	K	M	X	O	H	TR	WR
ART 131	General Drawing	ART 904	X	X	X	X	X	X			X
ART 132	Advance General Drawing	ART 905		X		X					X
ART 144	Two Dimensional Design	ART 907		X		X					X
ART 145	Three Dimensional Design	ART 908	X			X					X
BIOLOGY 121	Biology I	BIO 910	X	X	X	X	X	X	X	X	X
BIOLOGY 122	Biology II	BIO 910	X	X	X	X	X	X	X	X	X
BUSINES 181	Financial Accounting	BUS 903	X	X	X			X	X	X	X
BUSINES 182	Managerial Accounting	BUS 904	X	X	X			X	X	X	X
BUSINES 236	Advertising	MC 912	X	X	X						
CHEM 201	General Chemistry I	CHM 911	X	X	X	X	X	X	X	X	X
CHEM 203	General Chemistry II	CHM 912	X	X	X	X	X	X	X	X	X
CHEM 205	Organic Chemistry I	CHM 913	X	X	X	X	X	X	X	X	X
CHEM 207	Organic Chemistry II	CHM 914	X	X	X	X	X	X	X	X	X
CIS 120	Introduction to Computer Applications	BUS 902	X	X	X	X	X	X	X	X	X
CIS 142	C++ Object Oriented Programming I	CS 911	X	X	X	X	X	X	X	X	X
CIS 144	Java Object Oriented Programming I	CS 911	X	X	X	X	X	X	X	X	X
CIS 242	C++ Object Oriented Programming II	CS 912	X	X	X	X				X	X
CIS 244	Java Object Oriented Programming II	CS 912	X	X	X	X	X	X	X	X	X
CRM JUS 102	Administration of Criminal Justice	CRJ 901	X	X	X	X	X	X	X	X	X
CRM JUS 114	Administration of Juvenile Justice	CRJ 914	X	X	X	X	X	X	X	X	X
CRM JUS 155	Introduction To Corrections	CRJ 911	X	X							X
CRM JUS 250	Introduction To Criminology	CRJ 912	X	X	X						X
DMD 105	2D Animation	MC 924		X							
DMD 131	Beg Multimedia Design & Dev	MC 923		X							
ENGLISH 151	News Reporting And Writing	MC 919		X						X	X

ENGLISH 152	Intro To Mass Communication	MC 911	X	X						X	
ENGR 215	Electrical Circuit Analysis	EGR 931L		X							
MATH 125	Introductory Statistics	BUS 901	X	X	X					X	X
MATH 146	Discrete Mathematics	CS 915	X	X		X				X	X
MATH 207	Calculus & Analytic Geometry I	MTH 901	X			X	X	X	X	X	X
MATH 208	Calculus & Analytic Geometry II	MTH 902	X			X	X	X	X	X	X
MATH 209	Calculus & Analytic Geometry III	MTH 903	X			X	X	X	X	X	X
MATH 210	Differential Equations	MTH 911		X							
MATH 210	Differential Equations	MTH 912				X	X	X	X	X	X
MATH 212	Linear Algebra	MTH 911	X	X						X	X
MATH 216	Statistics For Business Majors	BUS 901	X								X
MEDIACM 102	Announcing	MC 918				X					
MEDIACM 141	Intro To Media Communication	MC 911				X					
MEDIACM 203	Media Writing	MC 917				X					
MEDIACM 221	Radio Production I	MC 915				X					
MEDIACM 231	TV Production I	MC 916				X					
PHYSICS 215	Statics	EGR 942	X	X						X	X
PHYSICS 216	Dynamics	EGR 943	X	X						X	X
PHYSICS 217	Mechanics Of Materials	EGR 945	X	X						X	X
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	PHY 911	X								X
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	PHY 912	X								X
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	PHY 913	X								
PSYCH 213	Abnormal Psychology	PSY 905	X		X	X				X	X
SPEECH 144	Oral Reading & Interpretation	TA 916		X							X
THR ART 130	Stagecraft	TA 911				X					X
THR ART 133	Acting I	TA 914	X		X	X	X	X	X	X	X

IAI Code Legend:

- Agriculture (AG)
- Art (ART)
- Biological Sciences (BIO)
- Business (BUS)
- Chemistry (CHM)
- Computer Science (CS)
- Criminal Justice (CRJ)

- Early Childhood Education (ECE)
- Engineering (EGR)
- English (EGL)
- Mathematics (MTH)
- Media and Communication Arts (MC)
- Physics (PHY)
- Political Science (PLS)
- Theatre Arts (TA)

HUMAN DIVERSITY COURSES

The table below lists every course currently offered at City Colleges of Chicago that would fulfill the Human Diversity (HD) requirement. Please note that not all HD courses satisfy General Education requirements.

Course Code	Title	GE Category
AFRO AM 101	Introduction to African-American Studies	Fine Arts & Humanities
AFRO AM 102	Contemporary Conversations in Africana Studies	Not a GE course
ANTHRO 201	Intro to Biological and Cultural Evolutions of Humans	Social & Behavioral Sciences
ANTHRO 202	Cultural Anthropology	Social & Behavioral Sciences
ANTHRO 205	Applied Anthropology	Social & Behavioral Sciences
ANTHRO 206	Introduction to Archaeology	Social & Behavioral Sciences
ARABIC 101	Arabic for Beginners I	Not a GE course
ARABIC 102	Arabic for Beginners II	Not a GE course
ARABIC 103	Intermediate Arabic I	Not a GE course
ARABIC 104	Intermediate Arabic II	Humanities
ARCHITC 104	History Of Architecture I	Not a GE course
ARCHITC 105	History Of Architecture II	Not a GE course
ART 103	Art Appreciation	Fine Arts
ART 130	African American Art	Fine Arts
BIOLOGY 113	The Biology Of Women	Life Sciences
CHLD DV 262	Child, Family & Community Relations	Not a GE course
CHINESE 101	Introduction to Chinese	Not a GE course
CHINESE 102	Chinese II	Not a GE course
CHINESE 103	Chinese III	Not a GE course
CHINESE 104	Chinese IV	Humanities
FRENCH 101	First Course French	Not a GE course
FRENCH 102	Second Course French	Not a GE course
FRENCH 103	Third Course French	Not a GE course
FRENCH 104	Fourth Course French	Humanities
FRENCH 210	Modern Civilization & Culture French	Humanities
FRENCH 213	Intro To Modern Literature French	Humanities
GEOG 101	World Geography	Social & Behavioral Sciences
GEOG 102	Economic Geography	Social & Behavioral Sciences
HIT 101	Foundations of HIT	Not a GE course
HIT 213	Supervisory and Legal Aspects	Not a GE course
HISTORY 114	The Afro-American In American History	Social & Behavioral Sciences
HISTORY 115	Afro-American History Since 1865	Social & Behavioral Sciences
HISTORY 118	Women In American History	Social & Behavioral Sciences
HISTORY 141	History of World Divilization to 1500	Social & Behavioral Sciences
HISTORY 142	Hist World Diviliz Frm 1500	Social & Behavioral Sciences
HISTORY 212	History & Culture Of China	Social & Behavioral Sciences
HISTORY 213	American Civil Rights Movement	Social & Behavioral Sciences
HISTORY 215	History of Latin America	Social & Behavioral Sciences
HISTORY 216	History of Latin America in the U.S.	Social & Behavioral Sciences
HISTORY 225	Modern Middle East History	Social & Behavioral Sciences
HISTORY 243	The Far East in the Modern World	Social & Behavioral Sciences
HISTORY 247	African History to Colonial Period	Social & Behavioral Sciences
HISTORY 248	African History - Modern Period	Social & Behavioral Sciences
HUM 141	Afro-American Arts	Humanities
HUM 143	Intro to Latin American/ Latino Studies	Fine Arts & Humanities
HUM 144	Introduction to Women's and Gender Studies	Fine Arts & Humanities
HUM 145	Intro to Diversity/Ethnic Studies	Fine Arts & Humanities
HUM 146	Gay, Lesbian, Bisexual & Transgender	Fine Arts & Humanities
HUM 203	Arts of Contemporary America	Fine Arts & Humanities
HUM 205	World Literature I	Humanities
HUM 208	Women in Creative-Performing Arts	Fine Arts & Humanities
HUM 209	Latinxs in Chicago	Fine Arts & Humanities
HUM 210	Comparative Mythology	Humanities
HUM 212	Non-Western Humanities	Fine Arts & Humanities
HUM 215	The Art and Philosophy of the African Continent	Fine Arts & Humanities
ITALIAN 101	First Course Italian	Not a GE course
ITALIAN 102	Second Course Italian	Not a GE course
ITALIAN 103	Third Course Italian	Not a GE course
ITALIAN 104	Fourth Course Italian	Humanities
JAPANES 101	First Course Japanese	Not a GE course

JAPANES 102	Second Course Japanese	Not a GE course	SOC 208	Transnational Feminisms	Not a GE course
JAPANES 103	Third Course Japanese	Not a GE course	SOC 209	The Black Man In The U.S.	Social & Behavioral Sciences
JAPANES 104	Fourth Course Japanese	Humanities	SOC 210	Diverse Cultures/Global Age	Not a GE course
LIT 121	Contemporary African American Literature	Humanities	SOC 211	Race & Ethnic Relations	Social & Behavioral Sciences
LIT 122	Perspectives in Black Literature	Humanities	SOC 241	Institutional Racism	Social & Behavioral Sciences
LIT 125	Psychology in Black Literature	Humanities	SOC 280	Human Relations	Social & Behavioral Sciences
LIT 128	Latin American Literature	Humanities	SOC SCI 110	Introduction to Global Studies	Not a GE course
LIT 129	U.S. Latino (a) Literature	Humanities	SOC SCI 221	Black Economics	Social & Behavioral Sciences
LIT 131	Survey Of Afro-American Poetry	Humanities	SOC SER 204	Cross-Culture Studies in Gerontology	Not a GE course
LIT 132	Native American Literature	Humanities	SPANISH 101	First Course Spanish	Not a GE course
LIT 133	African American Fiction	Humanities	SPANISH 102	Second Course Spanish	Not a GE course
LIT 137	The Black Woman in Black Fiction	Humanities	SPANISH 103	Third Course Spanish	Not a GE course
LIT 150	Women's Literature	Humanities	SPANISH 104	Fourth Course Spanish	Humanities
LIT 153	Gay and Lesbian Literature	Humanities	SPANISH 111	Spanish For Hispanos	Humanities
MOR SCI 203	Funeral Directing	Not a GE course	SPANISH 113	Spanish For Near Native Speakers I	Humanities
MUSIC 183	World Music	Fine Arts	SPANISH 114	Spanish For Near-Native Speakers II	Humanities
MUSIC 200	Black Music Workshop	Not a GE course	SPANISH 191	Survival Spanish Nursing	Humanities
NURSING 203	Nursing Leadership	Not a GE course	SPANISH 206	Intensive Oral Practice Spanish	Humanities
POLISH 101	First Course Polish	Not a GE course	SPANISH 210	Modern Civilization & Culture Spanish	Humanities
POLISH 102	Second Course Polish	Not a GE course	SPANISH 213	Intro To Modern Literature Spanish	Humanities
POLISH 103	Third Course Polish	Not a GE course	SPANISH 214	Readings In Literature Spanish	Humanities
POLISH 104	Fourth Course Polish	Humanities	THR ART 134	Theater Diversity in the U.S.	Fine Arts
POL SCI 204	International Relations	Social & Behavioral Sciences			
POL SCI 206	American Foreign Policy	Social & Behavioral Sciences			
POL SCI 211	Analysis Of White Racism	Social & Behavioral Sciences			
PSYCH 209	Black Psychology	Social & Behavioral Sciences			
PSYCH 211	Social Psychology	Social & Behavioral Sciences			
PTA 110	Introduction to Physical Therapy	Not a GE course			
RELIGN 106	Comparative Religion I/ Eastern Religion	Humanities			
RELIGN 107	Com Rel II Western Religion	Humanities			
SOC 201	Intro To the Study Of Society	Social & Behavioral Sciences			
SOC 207	The Sociology Of Sex & Gender	Social & Behavioral Sciences			

COMPLIANCE STATEMENT

Non-Discrimination Policies and Procedures

Equal Opportunity in Programs, Services and Activities

City Colleges of Chicago does not discriminate on the basis of race, color, national origin, ethnicity, gender, age, religion, citizenship, sexual orientation, marital status, disability, veteran status, genetic information, pregnancy, membership or lawful participation in the activities of any organization, or the exercise of rights guaranteed by local, state, or federal law with respect to hire, terms and conditions of employment, continued employment, admissions, or participation in Board programs, services, or activities as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990 and the Amendments Act, Section 504 of the Rehabilitation Act of 1973, Title VI or Title VII of the Civil Rights Act of 1964, and other applicable statutes and City Colleges of Chicago policies. The EEO Office is responsible for investigating and responding to equal opportunity concerns, including sexual harassment, of CCC employees, applicants for employment, students or applicants for admission or any other person.

Complaints of discrimination or harassment may be made by or against employees, students, or other participants in Board programs, activities, or services. Any person who believes that he or she has suffered from a violation of CCC's equal opportunity policies with respect to discrimination or harassment may file a complaint with the District's EEO Office.

Complaints must be in writing and filed within 180 days of the discriminatory or harassing act. All complaints must be directed to the:

EEO Office
Office of Human Resources and Staff Development
180 N. Wabash Avenue, 2nd Floor
Chicago, Illinois 60601
or at eeofficer@ccc.edu

For information regarding the EEO Policy and procedures, please contact the EEO Office at (312) 553-2865.

The complete text of the District's non-discrimination policy is contained in the Student Policy Manual. Copies of the City Colleges of Chicago Equal Opportunity Complaint Procedures and the Discrimination Complaint Form are available in the District Office, Office of Human Resources at the above address, and in the Personnel Office at each of the seven City Colleges of Chicago locations. CCC's non-discrimination policies, and complaint procedures and form are also available on the CCC website at [www.ccc.edu/departments/Pages/Equal-Opportunity-Office-\(EEO\).aspx](http://www.ccc.edu/departments/Pages/Equal-Opportunity-Office-(EEO).aspx) ([http://www.ccc.edu/departments/Pages/Equal-Opportunity-Office-\(EEO\).aspx](http://www.ccc.edu/departments/Pages/Equal-Opportunity-Office-(EEO).aspx)).

Prohibition Against Retaliation and Intimidation

Retaliation against and/or intimidation of employees, students, program participants, witnesses or any other persons who make complaints or who cooperate in EEO investigations is strictly prohibited. Anyone who feels he or she is the victim of retaliation or intimidation should contact the EEO Office to report such incidents immediately.

Smoke-Free Workplace

City Colleges of Chicago is a smoke-free environment.

Prohibition on Unlawful Drug and Alcohol Use

City Colleges of Chicago prohibits the use or distribution of alcoholic beverages in or on college property, or in conjunction with any college activities, except as authorized by state law and specifically approved by the college president or the chancellor. The unlawful manufacture, distribution, dispensation, use or possession of controlled substances (as defined in the Controlled Substances Act, 21 U.S.C. 812, section 202, schedules I through V) in or on college property is strictly prohibited.

The Board of Trustees of the Community College District No. 508, is governed by the Illinois Public Community College Act, (110 ILCS 805/1-1, et seq.) and the Rules for the Management and Government of City Colleges of Chicago, with any amendments enacted or thereafter. A student or employee who is found to be in violation of the above stated prohibitions will be subject to disciplinary action, up to and including expulsion and/or dismissal from employment.

Privacy of Educational Records

City Colleges of Chicago complies with the Family and Educational Records Protection Act with respect to students' right of access to their educational records and the disclosure of educational records to third parties. For more information, please visit www.ccc.edu/menu/Pages/ccc_ferpa_compliance.aspx#legal (http://www.ccc.edu/menu/Pages/ccc_ferpa_compliance.aspx#legal).

Disclaimer

Information contained in this catalog is for informational purposes only and is subject to change by the Board of Trustees of Community College District No. 508 (City Colleges of Chicago). The catalog contains information regarding City Colleges of Chicago, which is current as of the time of publication. It is not intended to be a complete description of all City Colleges of Chicago policies and procedures, nor is it intended to be a contract. This catalog and its provisions are subject to change at any time without advance notice.

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Key College Code

Indicates where the course is approved to be offered.

- **DA** - Richard J. Daley College
- **HW** - Harold Washington College
- **KK** - Kennedy-King College
- **MX** - Malcolm X College
- **OH** - Olive-Harvey College
- **TR** - Harry S Truman College
- **WR** - Wilbur Wright College

IAI - Course is approved at one or more colleges for the Illinois Articulation Agreement (IAI).

GE - Course satisfies a General Educaiton (GE) requirement based on the category listed and program requirements.

HD Course - Course satisfies the Human Diversity (HD) requirement for degree programs.

Refer to the semester credit schedules for course availability.

Africana Studies (AFRO AM)

Africana Studies (AFRO AM) 101

Introduction to African-American Studies

Survey of African-American Studies from an interdisciplinary perspective; team-taught course utilizing expertise of African-American Studies staff, embraces five basic categories of the African-American Studies program. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

IAI: H2 909D, HF 906D **GE:** Fine Arts, Humanities **HD Course**

Africana Studies (AFRO AM) 102

Contemporary Conversations in Africana Studies

A thematic study of topics in Africana Studies, with special attention to media, popular culture, and the contributions of women. Builds upon and offers a deeper exploration of topics introduced in Africana Studies 101. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of AFRO AM 101 with a grade of C or better -AND- Eligibility for ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

HD Course

Africana Studies (AFRO AM) 214**Hip Hop: Culture and Politics**

The political significance, globalization and history of Hip-Hop will be examined. Four of the multitude of musical permutations of American Hip-Hop (Rap, consciousness/social awareness, gangsta rap and commercial hip-hop) and their relative/potential impact will be outlined. The materials/social culture that has come to be associated with Hip-Hop will be the primary focus. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (ENGLISH 101 and AFRO AM 101).

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

Air Conditioning (AIR CON)

Air Conditioning (AIR CON) 101**Intro Air Conditioning I**

Fundamentals of heat and measurement; intensity, quantity and modes of flow; factors of comfort studied and explored in relation to design of a system in connection with function of that system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 102**Intro Air Conditioning II**

Refrigeration, its theory, systems, components, and control as applied to air conditioning; study of refrigeration equipment, including function, selection, proper installation, maintenance, and service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 103**Duct Design And Layout**

Conventional low velocity duct design; high velocity air distribution design and systems using sophisticated design techniques; layout techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (AIR CON 101 and AIR CON 102) or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 104**Equipment and Systems Controls**

Pneumatic, electric, and electronic controls and control systems; selection and design of control systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 105**Owner-Contractor Management**

Fundamentals of management techniques for air conditioning dealers, contractors, and entrepreneurs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 106**Sheet Metal I**

Fabrication and installation of ducts used in air conditioning, ventilation and heating systems. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 107**Welding I**

Techniques of welding and cutting different metals under a variety of conditions. Students will learn to weld, butt, edge, lap and fillet joints. Oxy-acetylene, oxy-propane and carbon arc methods are employed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 120**Introductory Laboratory**

Shop and laboratory safety, use of hand tools for air conditioning, refrigeration and heating, use of meters, instruments and gauges. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 121**Advanced Laboratory**

Covers meters, instruments, and troubleshooting. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 150**Intro To Refrigeration**

Servicing, installation, reinstallation, warranty, and troubleshooting of home and commercial refrigeration systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 151**Commercial Refrigeration**

Selection, maintenance, installation of commercial refrigeration. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AIR CON 150.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 155**Refrigeration Laboratory**

Gauges, meters, and troubleshooting. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 156**Domestic Refrigeration Laboratory**

Domestic and hermetic servicing. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 157

Analysis Laboratory

Analysis of domestic and commercial hermetic systems, mechanical and electrical servicing. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 158

Commercial Refrigeration Laboratory

Installation of components and complete systems, service and maintenance of those components and systems. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 160

Intro to Principles of Heating

Warm air systems, hot water systems, steam systems, gas fuel, oil fuel, and coal fuel at both residential and commercial levels; control systems and their installation, maintenance, service and sub-electrical systems and their service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 165

Heating Laboratory

General study of domestic and commercial systems. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Air Conditioning (AIR CON) 204

Advanced Control Systems

Theory, maintenance and repair of advanced electrical, mechanical and electronic controls and control systems. Design techniques of control systems explored. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AIR CON 104.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Anthropology (ANTHRO)

Anthropology (ANTHRO) 201

Intro to Biological and Cultural Evolutions of Humans

Survey and analysis of the fundamentals of prehistoric archaeology, fossil primates and primate evolution, primate behavior, human genetics, and the variations of human populations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

IAI: S1 900N,S1 902 GE: Social & Behavioral Sciences HD Course

Anthropology (ANTHRO) 202

Cultural Anthropology

Comparative study of human societies and cultures of the world; cross-cultural investigation of social organization and political, economic, religious, and family systems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S1 901N GE: Social & Behavioral Sciences HD Course

Anthropology (ANTHRO) 205

Applied Anthropology

This course explores the application of anthropological concepts, perspectives, techniques, and information to understanding and dealing with contemporary issues. Discusses the relevance of anthropology to such practical concerns as health care, business, and community development, and illustrates the versatility of its uses in numerous career fields. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

IAI: S1 904D GE: Social & Behavioral Sciences HD Course

Anthropology (ANTHRO) 206

Introduction to Archaeology

Introduces the study of past cultures through their material remains. Explores strategies for locating archaeological remains; techniques of excavation; conservation procedures; and methods for analysis and interpretation of these materials. Examines major prehistoric cultures of the world and their patterns of change and development. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

IAI: S1 903 GE: Social & Behavioral Sciences HD Course

Anthropology (ANTHRO) 210

North American Archaeology

Prehistoric cultural evolution in North America, including the first arrival of people, distribution, beginnings of settled life and formation of political-religious states; prehistory of Eastern and Western United States and Eastern, Central and Southern Mexico until arrival of Europeans. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Social & Behavioral Sciences

Arabic (ARABIC)

Arabic (ARABIC) 101

Arabic for Beginners I

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, and reading. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, TR, WR

HD Course

Arabic (ARABIC) 102

Arabic for Beginners II

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, reading, and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARABIC 101, ACTFL Arabic Writing Proficiency Test (Score 2.00), Placement Test, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, OH, TR, WR

HD Course

Arabic (ARABIC) 103

Intermediate Arabic I

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on the alphabet, vocabulary and structure needed for elementary speaking, listening, reading and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARABIC 102, Placement Test or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, OH, TR, WR

HD Course

Arabic (ARABIC) 104

Intermediate Arabic II

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, reading and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARABIC 103, Placement Test or Consent of Department Chairperson

4 Lecture hours. 4 Credit Hours.

Offered At: DA, OH, TR, WR

GE: Humanities HD Course

Architecture (ARCHITC)

Architecture (ARCHITC) 104

History Of Architecture I

The study of world architecture from prehistory through the 16th century. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR, WR

HD Course

Architecture (ARCHITC) 105

History Of Architecture II

The study of world architecture from the 17th century. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR, WR

HD Course

Architecture (ARCHITC) 110

Architectural Sketching

Introduction to the observational sketching of architectural subjects. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 2 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 121

Basic Design Studio

Introduction to visual and organizational design principles for the generation of spatial and formal ideas. Use of graphic techniques and physical modeling for representation. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 122

Intermediate Design Studio

Continuation of ARCHITC 121. Emphasis on the design and articulation of space and its representation. Introduction to spatial concepts of perception and order. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 110 and ARCHITC 121, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 123

Advanced Design Studio

Continuation of Architecture 122. Emphasis on architectural analysis and design process. Integration of analog and digital tools and media. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 122 and ARCHITC 121, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 166

Architectural Design I

Examination of criteria influencing residential design: program, context, municipal regulations, dimensional standards, and anthropomorphic data. Introduction to typologies, organizational strategies and precedents for architectural problem solving. Application of the skills of visual communication and design methodologies. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96, and grade of C or better or concurrent enrollment in ARCHITC 122, and Grade of C or better or concurrent enrollment in ARCHITC 121, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 170

Digital Lab I

Introduction to the methods of generation and representation of spatial and formal ideas. Use of software applications and a range of output methods. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 171

Digital Lab II

Three-Dimensional modeling and rendering of spatial and formal constructs using software applications appropriate to the discipline. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 170 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 172

Digital Lab III

Introduction to the assembly of construction drawings for architectural projects. Use of software applications, as appropriate to the discipline. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 170 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 173

Architecture-CAD with Third Party Applications

Introduction to third party programs used to develop architectural designs and construction documents via Computer-Aided Design (CAD). Add-on programming to the base drafting package AutoCAD. The student will have hands-on experience with automated architectural programs that streamline management of file handling and the basic command structure. Utilization of comprehensive library symbols with smart features. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 171 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 174

Computer Aided Design V for Architectural Drafting

Introduction to third party programs used to develop architectural designs and construction documents via Computer-Aided Design (CAD). Add on program to the base drafting package AutoCAD. The students will have hands on experience with 3-D studio. This course will include three-dimensional modeling with complete rendering. The model will include texture of materials, various lighting schemes with shade and shadow. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 171 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 202

Construction I

Study of the materials and methods of building construction. Emphasis on architecture framed in wood and light-gauge metal. Application of the skills of graphic communication through the generation of construction drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96, and grade of C or better or concurrent enrollment in ARCHITC 172, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 204

Construction II

Study of the materials and methods of building construction. Emphasis on architecture having assemblies of masonry, concrete, steel and mass timber. Application of the skills of graphic communication through the generation of construction drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96, and grade of C or better or concurrent enrollment in ARCHITC 172, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 220

Portfolio Development

Design and compilation of an architectural portfolio for employment and transfer. Preparation of materials that supplement the portfolio. Overview of interview protocols and processes. Writing assignment, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 123 and ARCHITC 171; and a grade of C or better or concurrent enrollment in ARCHITC 266, or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 230

Structural Fundamentals

An introduction to the concepts and design of structural systems in architectural applications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or concurrent enrollment in ARCHITC 204; Grade of C or better in PHYSICS 221; or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Architecture (ARCHITC) 266

Architectural Design II

Continuation of Architecture 166. Emphasis on mid-size commercial and institutional building types in urban contexts. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 166, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

Art (ART)

Art (ART) 103

Art Appreciation

Appreciation of art works taken from all cultures and periods. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: F2 900 **GE:** Fine Arts HD Course

Art (ART) 112

Experiences in African American Art

Examination of the works of African American artists utilizing various art forms (crafts, paintings, drawings, sculptures, and digital art) that express the cultural and racial identity of African Americans and their artistic influence on society, with a focus on contemporary artists from the Harlem Renaissance through the present time.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

GE: Fine Arts

Art (ART) 113

Beginning Digital Photography

This course in digital photography introduces creating, manipulating, and producing images in a technologically based environment. Writing assignments, as appropriate to the discipline, are part of this course.

6 Laboratory hours. 3 Credit Hours.

Offered At: HW, OH, TR, WR

Art (ART) 114

Appreciation Of Photography

Topics from the history and technical development of photography from its invention to the present. Influence of other arts and sciences. May include darkroom work. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Art (ART) 115

Beginning Darkroom Photography

Basic principles of black and white photography. 35 mm cameras, exposure, development and printing processes, composition and presentation. Writing assignments, as appropriate to the discipline, are part of the course

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Art (ART) 116

Intermediate Black and White Photography

This course in black and white photography introduces advanced techniques in shooting, developing, and printing, including the introduction of formats beyond 35mm. Writing assignments, as appropriate to the discipline, are part of this course.

Grade of C or better in ART 115, or Consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Art (ART) 117

Beginning Color Photography

Introduction to techniques, art and theory of color photography; printing from color negatives and/or transparencies, developing color film negatives and/or transparencies; characteristics of different color film types, lighting for color photography; covers color theory and use of color in composition. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 115, or Consent of Coordinator or Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, TR

Art (ART) 126

Printmaking I

Processes of lithography and relief printmaking; includes line, shape, texture, value and color in stone lithography, wood, linoleum printmaking. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory Hours. 3 Credit Hours.

Offered At: HW

Art (ART) 127

Printmaking II

Processes of intaglio, dry point and screen printmaking, includes line, shape, texture, value and color in printmaking process. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 3 Credit Hours.

Offered At: HW, WR

Art (ART) 130

African-American Art

Survey of African-American art over last 150 years; covers African-American crafts and sculpture during 19th Century; realistic painters of early 20th Century; cubistic and abstractionist influences on painting and sculpture; non-revolutionary artists such as Charles White, Henry O. Tanner, Aaron Douglas and Hughie Lee-Smith. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX, OH

IAI: F2 906D **GE:** Fine Arts HD Course

Art (ART) 131

General Drawing

Still-life, landscape and human figure; experimentation with various media. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: ART 904

Art (ART) 132

Advanced General Drawing

This course builds on and refines the experiences of general drawing focusing on a variety of color media. Emphasis is on invention and formal concerns. Explorations into abstraction, non-objective, and fabricated image making are covered in this class. Course includes vocabulary development, critical analysis activities, and reference to historic models of drawing. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 131.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: ART 905

Art (ART) 141

Intro To The Visual Arts

This course is a practical application of fundamentals of the visual arts. This includes the study of the principles and elements of design through exploration of various art materials, process and techniques. Writing assignments, as appropriate to the discipline, are part of the course.

4-6 Laboratory Hours. 2-3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Art (ART) 142

Figure Draw & Composition

Study of the human figure in action and still poses; rapid sketching, long poses, memory work, and portraiture. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 131.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Art (ART) 143

Advanced Figure Drawing

Development of skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 142.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Art (ART) 144

Two Dimensional Design

A studio course exploring the fundamentals of the formal systems and basic elements of visual organization through two-dimensional design principles and theories using a variety of media. Fundamental design and experimentation in relationship s of line, shape, textures, and color. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: ART 907

Art (ART) 145

Three Dimensional Design

Study of the fundamentals of the formal systems and basic elements of visual organization through three-dimensional design principles and theories; use of a variety of media, including recent and traditional materials, such as clay and plaster. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

IAI: ART 908

Art (ART) 150

Crafts Workshop

Creation and construction of art forms in clay, metal, cloth, fibers, plaster and wood; art process in both two and three dimensions; recommended for pre-teachers. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: TR, WR

Art (ART) 161

Freehand Drawing

Elementary drawing in charcoal and pencil from simple groups of block forms, still life and architectural ornament; includes developing pencil technique. No previous drawing experience necessary. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, KK, TR

Art (ART) 162

Architectural Representations

Continuation of Art 161. Experimentation with water colors and their use in rendering of architectural representation of building materials, textures and nature; includes exterior and interior perspectives. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (ART 141 and ART 161), or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: TR

Art (ART) 163

Water Color Painting

Elementary painting and sketching including still life, landscape and figure painting. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 3 Credit Hours.

Offered At: KK, TR, WR

Art (ART) 166

Oil Painting Techniques

A studio course that serves as an introduction to basic painting techniques and color principles applied to the exploration of oil and acrylic painting media. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 131, or Consent of Department Chairperson.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Art (ART) 167

Advanced Oil Painting Techniques

Advanced techniques and experimentation in use of materials and the development of creative styles in oil painting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 166, or Consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Art (ART) 172

Communications Design I

Design application and merchandising of products and ideas; theory of design of form and function applied to products, brochures, packaging, display, and other commercial designs; application of design in television, newspapers, magazines, billboards, and posters for advertising industry. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 144, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Art (ART) 176**Graphics Design I**

Creative approach to graphics, using traditional and modern media, such as drawing, painting, photography, constructed and sculptured art; includes reproduction of illustrations relating to advertising, periodical and book publishing. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 144, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, OH

Art (ART) 177**Graphics Design II**

Continuation of Art 176. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 176

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Art (ART) 196**Ceramics**

Ceramics formed by coil, slab or free form methods. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory Hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR

Art (ART) 197**Advanced Ceramics & Sculpture**

Advanced work in pottery and sculpture, use of molds and various materials, individual experiments in pottery and sculpture. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 196, or Consent of Department Chairperson

6 Laboratory hours. 3 Credit Hours.

Offered At: HW, OH, TR

Art (ART) 198**Sculpture I**

The creation of sculpture using the formal systems and elements of visual organization in a study of materials and processes; this is done using a variety of tools and media, including but not limited to contemporary and traditional materials. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or concurrent enrollment in ART 145 with consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: HW, WR

Art (ART) 200**Individual Art Projects**

For advanced students who have completed beginning level studies in the corresponding discipline specific course, or an equivalent course at another institution, or who can demonstrate proficiency through portfolio review in the skills taught in the corresponding 100 level course. Work is completed on an independent project, the subject of which is designed through dialogue between the student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-8**Art Projects: Advanced Ceramics**

For advanced students who have taken all or most other art courses.

Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 197, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-9**Art Projects: Computer Art/Application**

For advanced students who have taken all or most other art courses.

Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 275, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-A**Art Projects: Photography**

For advanced students who have taken all or most other art courses.

Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 115, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-B**Art Projects: Advanced Photography**

For advanced students who have taken all or most other art courses.

Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 Grade of C or better in ART 116, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-C**Art Projects: Color Photography**

For advanced students who have taken all or most other art courses.

Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 117, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-D

Art Projects: Printmaking I

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 126, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-E

Art Projects: Printmaking II

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 127, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-F

Art Projects: General Drawing

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 131, or Consent of Department Chairperson

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-G

Art Projects: Advanced Drawing

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 132, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-H

Art Projects: Painting I

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 134, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-I

Art Projects: Painting II

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 135, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-J

Art Projects: Painting III

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 136, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-K

Art Projects: Intro Visual Arts

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 141, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR

Repeatable: Yes, up to 3 times

Art (ART) 200-L

Art Projects: Figure Drawing

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 142, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-M

Art Projects: Adv Figure Drawing

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 143, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-N**Art Projects: Two Dimensional Design**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 144, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-O**Art Projects: Three Dimensional Design**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 145, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-P**Art Projects: Crafts Workshop**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 150, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-Q**Art Projects: Freehand Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 161, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR

Repeatable: Yes, up to 3 times

Art (ART) 200-R**Art Projects: Architectural Rep**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 162, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR

Repeatable: Yes, up to 3 times

Art (ART) 200-S**Art Projects: Watercolor Paintng**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 163, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-T**Art Projects: Oil Painting**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 166, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-U**Art Projects: Advanced Oil Painting**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 167, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-V**Art Projects: Communication Design I**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 172, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-W**Art Projects: Advanced Com Art**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 174, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-X

Art Projects: Graphic Design I

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 176, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-Y

Art Projects: Graphic Design II

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 177, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 200-Z

Art Projects: Ceramics

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Eligibility for ENGLISH 101 or Grade of C or better in ART 196, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 3 times

Art (ART) 213

Intermediate Digital Photography

This is an advanced course in digital photography, intended to build and expand upon skills learned in beginning digital photography. It will address broad and in-depth techniques in digital image creation and production toward professional and fine art photography output. Writing assignments, as appropriate to the discipline, are part of this course.

Grade of C or better in ART 113, or Consent of Coordinator or Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: HW, WR

Art (ART) 270

Photography Portfolio

Creation and completion of a photography portfolio for transfer, exhibition, or employment. This course will address paths for professional advancement in photography and the visual, written, and oral materials and skills necessary. Writing assignments, as appropriate to the discipline, are part of this course.

Completion with a grade of C or better in ENGLISH 101 and ART 113 and ART 115 and completion with a grade of C or better or concurrent enrollment in one of the following (ART 116 or ART 117 or ART 2XX) or Consent of Coordinator or Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Art (ART) 272

Communications Design II

Story boards for television commercials, graphics design for television, and development and making of television commercials. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 172, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Art (ART) 275

Computer Art And Applications

An introduction and exploration of electronic imaging through hands-on experience of applications in computer graphics. A variety of software packages pertaining to art will be utilized, as well as input and output devices. The goal of the course is to begin to develop imaging skills in graphics systems. Students will also be introduced to computer concepts of design, color, image importing and exporting, image manipulation, and sequencing techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ART 144, ART 131, or ART 115 or Consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA, OH, TR, WR

Astronomy (ASTROMY)

Astronomy (ASTROMY) 201

Descriptive Astronomy

Descriptive survey of major astronomical facts, concepts, and relationships, starting with the solar system and extending to stars, galaxies, and cosmogonies. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, MX, TR, WR

IAI: P1 906 GE: Physical Sciences

Astronomy (ASTROMY) 203

The Solar System

A laboratory course that investigates the solar system and the tools used to explore it. Topics include planetary motion, electromagnetic radiation, the formation of the solar system, the physical natures of planets, moons, asteroids, and comets, and discoveries of extrasolar planets. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and successful completion of MATH 99 or higher.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: HW, WR

GE: Physical Sciences

Automotive Technology (AUTOTEC)

Automotive Technology (AUTOTEC) 101

Intro To Automotive Techn

Lecture and laboratory course covering the operating principles of the modern automobile. Subjects will include Preventive maintenance of the cooling system service, fuel system, tires and wheels, lubrication system and accessories. Course will include career exploration and automotive academics. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 102

Introduction to Collision Technology

This course includes students to technical skills and competencies in the workplace for entry-level positions. In addition to technical training, students develop interpersonal and problem-solving skills that are required in the dynamic workplace of today. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 103

Engine Concepts

Disassembly, inspection and service of automotive engines with major emphasis on operational diagnostic and service. students gain skills based on industry standards to perform precise diagnostics to solve operational issues related to the automotive engine. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or Concurrent enrollment in AUTOTEC 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 104

Electrical Systems & Power Accessories

Introduction to theory, diagnosis, and repair of automotive electrical and electronic components and systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or Concurrent enrollment in AUTOTEC 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 105

Fuel Management 1

Service techniques and theories of operations necessary to maintain modern fuel delivery systems. Service will be performed on modern fuel injection systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (AUTOTEC 103 or AUTOTEC 104), or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 106

Fuel Systems

This further study of the fuel system provides students with an opportunity to acquire knowledge of the construction, operating principles and components of automotive fuel systems. Students perform service on carburetors as well as fuel injection systems in accordance with established industry standards. Writing assignments, as appropriate of the discipline, are part of the course.

Grade of C or better in (AUTOTEC 101 and AUTOTEC 104).

9 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 107

Automotive Body Welding

Students will acquire knowledge and skills using MIG, TIG and spot welding equipment before welding operations in repairing damaged auto bodies. Proficiencies will be developed in butt and lap welding on light-gauge metal. Course will include replacement of body panels using adhesive techniques. All work performed must be in accordance with established collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 108

Work Based Learning I

Introduction to applied automotive technology in an actual work setting. Provides hands-on experience in an automotive shop. Students work on actual vehicles, carrying jobs from assignment through completion. Business operators will supervise students at the worksite. Instructors will supervise all on-campus work, and also visit off-campus worksites to observe, monitor and critique student performance. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 109

Automotive Brakes

Theory of operation and servicing of braking systems, both conventional and computerized anti-lock brake systems. Emphasis on diagnostic procedures; inspection techniques and service. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or Concurrent enrollment in AUTOTEC 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 111

Auto Parts Specialist I

Lecture and Laboratory course covering the principles of selling automotive parts in retail and wholesale parts establishments. Subjects will include: customer relations, parts identification and usage, stockings control, products knowledge, telephone ethics, selling skills, and cataloging. Writing assignments, as appropriate to the discipline are part of the course.

9 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 112

Auto Parts Specialist II

Lecture and Laboratory course covering skills necessary to manage an automotive parts retail store. Subjects will include customer relations, building team staff, inventory control, corporate relationships, conflict resolution, and business analysis. Writing assignment, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 111.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 117

Auto Body Reconstruction I

Study of the principles and techniques of auto body sheet metal connections, use and care of basic tools, types and application of fillers, analysis of the extent of damage, and performance required repair operations. Students develop skills in repairing and/or removing and replacing damaged body panels. Emphasis is placed on developing proficiency in repairing body damage according to establish collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 107, or Consent of Department Chairperson.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 118

Auto Body Repainting I

Students will execute the techniques of preparing body surfaces, selecting and mixing paint, and spraying. Refinishing techniques will be performed on individual panels until each student demonstrates competency to refinish a live vehicle. Course will also emphasize recognizing and performing repair techniques for damage paint finishes in accordance with collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 119

Automotive Body Detailing

Study of the principles of auto body detailing for post collision repaired vehicles and new and used car customer delivery service. Students will develop skills in selection and use of proper cleaning and polishing materials, proper buffing and polishing techniques, preparation of plastic bumpers and accessories, steam cleaning of engine components and care of rubber parts and interior cleaning. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 121

Structural Analysis and Damage Repair I

The development of skills in roughing and shaping procedures on automotive metal to make satisfactory minor body repairs. the emphasis is on the alignment of component parts such as doors, hoods, front-end assemblies and deck lids. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 102, 117, 217 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 122

Structural Analysis and Damage Repair II

Development of skills in manual and computer alignment with roughing and shaping procedures on automotive metal necessary to make satisfactory major body and unibody frame repairs. The emphasis is on the alignment of structural component parts such as, front-end assemblies, frame sections and body reconstruction. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 102, 117, 121, 217 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 130

Topics in Alternative Fuel Technology

This course will introduce the student to special topics in alternative fuel vehicles and all related technology. Additionally, the course will provide the knowledge base needed to understand alternative fuel vehicles, green technology, and their effect on the current and future of the world. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 101,104,105,204,205 and AUTOTEC 206; or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 204

Electrical Systems II

This course is designed to provide the necessary knowledge and skills to service today's automotive electrical systems. Selected topics include the reading of wiring diagrams, diagnosing electrical accessories, and operating and designing ignition systems. Students learn circuit testing on today's modern multiplex and CAN/BUS system protocol. Course will emphasize proper handling of advanced solid-state electronics such as air bags and computers. Writing assignments as appropriate to the discipline are part of the course.

Grade of C or better in (AUTOTEC 101 or AUTOTEC 104), or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 205

Fuel Management II

Emphasis on servicing of computerized engine and body controlled modules. Emphasis on service techniques for OBD II foreign and domestic computer control system. Students will gain skills in the use and interpretation of data related to modern diagnostic test equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 105.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 206

Fuel Management III

This course builds upon the knowledge gained in previous fuel management courses with emphasis on diagnosis and repairs to sensors and actuators that control engine performance. Students will gain advanced diagnostic skills to interpret waveform patterns through the use of laboratory scopes. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 205.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 207**Transmission Transaxle & Dr**

This course will cover three, four, and five speed manual transmissions/transaxles and all automotive transmissions/transaxles used on front wheel drive passenger cars. Diagnosis and repair procedures will be covered in detail. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (AUTOTEC 101 and AUTOTEC 212).

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 208**Work Based Learning II**

Advanced hands-on experience in an automotive shop. Students work on actual vehicles, carrying jobs from assignment through completion. Business operators will supervise students at the worksite. Instructors will supervise all on-campus work based learning students, and also visit off-campus worksites to observe, monitor, and critique student performance. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 209**Steering & Suspension Systems**

Theory of operation in servicing of suspension systems both rear and front wheel drive systems. Students gain skills in the use of computerized four-wheel alignment equipment, servicing McPherson struts, shock absorbers, rack and pinion and conventional steering systems. Diagnosis and service of Tire Monitoring Systems (TMS) is now part of the course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or Concurrent enrollment in AUTOTEC 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 210**Performance & Driveability**

This course covers the construction, operations and testing of the ignition systems. Training is offered on the use of oscilloscopes, infrared gas analyzers, and other diagnostic equipment such as scan tool testing. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (AUTOTEC 101, AUTOTEC 104, AUTOTEC 106 and AUTOTEC 204).

9 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 211**Auto Service Management**

Instruction in management skills related to inventory control, writing estimates and repair orders, billing, employee relations, time management, vendor relation, business financials and customer relations. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 212**Manual Drive Train & Axles**

Upon successful completion of this course students will demonstrate understanding of design, construction, operation and the service principles of automotive clutches, manual transmissions, drivelines, differentials, and rear axles. Service work includes using appropriate repair and test equipment, determining problems or extent of damage, and performing corrective work in accordance with established industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or Concurrent enrollment in AUTOTEC 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 215**AutoTemperature Control Systems**

Service procedures and theory of operation of both manual and electronically controlled heating and air conditioning systems. Emphasis will be on diagnosis, service, and replacement of air conditioning components. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR

Automotive Technology (AUTOTEC) 217**Auto Body Reconstruction II**

Students will increase their knowledge and skills by repairing more complex, extensive damages. Removal and installation of trim, body panels, welding, aligning various body components of the body, repairing of body hardware and accessories. Repairing or replacement of mechanical components as required for complete reconstruction of the vehicle is emphasized in this course. Students will utilize estimating skills to estimate the extent of damaged, repair time and cost of repairs and repair strategies. All work will be performed in accordance with established collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 117.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 218**Auto Body Repainting II**

Students will build on their refinishing skills learned in Automotive Technology 118 course. Advanced refinishing techniques are emphasized through practical application of auto body refinishing techniques on live vehicles as well as panels. As refinishing skills increase in proficiency students will acquire skills to perform color matching to refinish weathered finishes and localized panel damage repairs. Students will be evaluated on their ability to complete refinishing assignments in accordance with industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 118.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 220

Collision Estimating

Estimating for automotive insurance claims and adjusting damages. Emphasis will be on appraisal procedures, flat rate computations, use of collision estimator and preparation of insurance claim forms. Writing assignments, as appropriate to the discipline, are part of the course.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 223

Auto Body Repainting III

This course introduces students to the theory and application of color in custom automotive paint jobs. Topics include color analysis, paint mixing and tint matching. Students may also receive instruction in primer choice and application, clear coat finishing and the equipment used to apply primer, paint and finisher. Instruction also covers refinishing techniques, such as the use of waterborne acrylic materials, color blending paint repair work and troubleshooting common auto painting problems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 102, 118, 218 or Consent of Department Chairperson.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Automotive Technology (AUTOTEC) 230

Introduction to Alternative Fuel Technology

This course will introduce the student to the theories and service techniques of alternative fuel vehicles in today's society. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 101,104,105,204,205, and AUTOTEC 206; or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 231

AFT Hybrid Fuel Vehicles

This course builds upon the knowledge gained in the previous alternative fuel courses with an emphasis on theories and servicing techniques of hybrids and fuel-cell vehicles. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 101,104,105,204,205 and AUTOTEC 206; or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, OH

Automotive Technology (AUTOTEC) 232

Hybrid and Fuel Cell Vehicles

In this course, students will learn about alternative fuel technologies, apply advanced service techniques, and experiment with electric, hybrids, fuel-cell and other alternative energy source vehicles. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in AUTOTEC 101,104,105,204,205 and AUTOTEC 206; or Consent of Department Chairperson.

9 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: KK, OH

Aviation (AVIATN)

Aviation (AVIATN) 101

Aviation General Sciences I-Math, Science and General Physics

This course introduces math and physics, basic aircraft types, nomenclature, and aerodynamics. Students learn algebraic operations, fractions, exponents, roots, and geometric analysis as applicable to aircraft design, powerplant operations, and aeronautical physics, as well as learning the physics behind simple machines, heat dynamics, fluid and gas laws, work and power, air pressure and the principles of weight and balance on an aircraft. The student will leave the course understanding basic principles of mathematics and physics and be able to apply that knowledge to safely weighing aircraft, computing the center of gravity, and applying an array of math and physics functions. Writing assignments, as appropriate to the discipline, are part of the course.

5 Laboratory hours. 2.5 Lecture hours. 5 Credit Hours.

Offered At: OH

Aviation (AVIATN) 102

Aviation General Sciences II - Tools, Surfaces, and Corrosion Control

This course provides a study into the charts, diagrams, and text, which show the dimension's, stations, access doors, zoning and physical locations of the major structural components of an aircraft. Students will be introduced to the tools, hardware, materials, and processes used in aircraft maintenance and repair. At the end of this course, students will know the proper handling and inspection of aircraft and be able to recognize various types of corrosion causes and troubleshoot corrective measures to control corrosion of different types of metals used in aircraft construction. Writing assignments, as appropriate to the discipline, are part of the course.

5 Laboratory hours. 2.5 Lecture hours. 5 Credit Hours.

Offered At: OH

Aviation (AVIATN) 103

Aviation General Sciences III - Maintenance Operations and Records

This course provides an introduction of maintenance publications and mechanic requirements for maintenance forms and records as well as an overview of flexible and rigid lines and fittings used to convey fluids in aircraft systems. Students learn aircraft services procedures; ground handling of aircraft and safety procedures and types of powerplants used in aircraft. By the end of this class, students will understand FAA regulations regarding maintenance personnel and know the limitations and requirements for inspection, maintenance records, and aviation mechanic privileges. Writing assignments, as appropriate to the discipline, are part of the course

5 Laboratory hours. 2.5 Lecture hours. 5 Credit Hours.

Offered At: OH

Aviation (AVIATN) 104

Aviation General Sciences IV - Basic Electricity

: This course introduces electrical theory and operation. Students learn to calculate and measure voltage, current, resistance, how to build and analyze simple circuits and to use electrical schematics. At the end of this course, students will be able to discuss alternating current electricity and basic electronics theory and apply it to servicing and troubleshooting aircraft batteries and solid state devices.

5 Laboratory hours. 2.5 Lecture hours. 5 Credit Hours.

Offered At: OH

Baking & Pastry (330BKPS)

Baking Pastry (330BKPS) 765

Introduction to Baking

The focus of this course will be an introduction to culinary history with emphasis on baking and pastry; instruction in principles and procedures of basic equipment and its use and beginning fundamentals of baking. A look at the contemporary employment options in this field will compare restaurant, specialty (e.g., wedding cakes), retail and wholesale careers. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330BKPS 766, 767, 768, 769.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 766

Baking Safety and Sanitation

An introduction to safe food production practices. Topics will include prevention of food-borne illness, HACCP procedures, facility sanitation, legal guidelines, kitchen safety, and safe food preparation, storing, and reheating guidelines. The National Restaurant Association ServSafe examination will be a part of this course. Students who pass the exam will receive the ServSafe certification. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330BKPS 765, 767, 768, 769.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 767

Baking Techniques

This course provides an introduction to the functions of baking ingredients (flour, sugar, fat, eggs and liquids) and mixing methods for doughs, fermentation techniques, and bread baking. Special emphasis will be placed on lean dough production and enriched dough methods (laminating, rubbing, and cut-in). Training in evaluation techniques of finished products will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330BKPS 765, 766, 768, 769.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 768

Pastry Techniques

An introduction to pastry products and methods, this course will include lamination, short crust, liaison, meringue, pastry cream, pate a choux, vanilla sauce, ganache, custard and mousse. Assembling the various components into completed pastries will include filling, glazing, garnishing and making a variety of sauces. Students will learn to evaluate the quality of the items that are produced. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330BKPS 765, 766, 767, 769.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 769

Cookies and Tarts

An introduction to a variety of mixing methods, doughs, batters, fillings and glazes with emphasis on preparing unfilled and filled cookies, mignardises, tarts, a variety of petit fours and other one bite items. Emphasis will be on production and will include specialty preparations, like gingerbread houses. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330BKPS 765, 766, 767, 768.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 770

Basic and Classical Cakes

With emphasis on the different mixing and assembly methods, the students will prepare a variety of classical cakes from simple pound cakes to elaborate filled cakes and tortes. Classical preparations will include Sacher Torte, Dobos Torte, Opera Torte, Marjolaine, Gateaux St. Honore, and Charlottes. Piping skills will be introduced and practiced.

Writing assignments, as appropriate to the discipline, *Grade of C or better in 330BKPS 767, 768 and 330BKPS 769; concurrent enrollment in 330BKPS 771, 772, and 330BKPS 773.*

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 771

Special Occasions Cakes

Decorating techniques will be practiced, including flowers and borders, royal icing, fondant draping, crimping and ruffling and gum paste flowers. Students will prepare special occasion cakes, seasonal cakes, and classical and contemporary wedding cakes. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768 and 330BKPS 769; concurrent enrollment in 330BKPS 770, 772, and 330BKPS 773.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 772

Individual Pastries

Quantity production will be a key element of this course. From scaling recipes and calculating yields to working a pastry station, each student will be exposed to volume production for pastry buffet tables and retail operations. Emphasis will include presentation and plate designs for banquet desserts. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767,768 and 330BKPS 769; concurrent enrollment in 330BKPS 770, 771, and 330BKPS 773.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 773

Confectionary Arts

Display pieces are an important art in the pastry chef's repertoire. This course will serve as an introduction to chocolate, sugar, marzipan, finishing techniques, molds and templates. Each student will create a centerpiece utilizing the skills learned. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767,768 and 330BKPS 769; concurrent enrollment in 330BKPS 770, 771, and 330BKPS 772.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 774

Hearth Breads and Rolls

Learn to mix, shape, bake and store bread and rolls. Emphasis will be on efficiency and increased speed in production of quality products. Students will use traditional fermentation methods, equipment, and methods to emphasize flavor, texture, and appearance as well as techniques that increase shelf life. Students will learn to evaluate the quality of the items that are produced. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 775 and 776

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 775

Specialty Breads

This course will introduce advanced bread principles and techniques, including regional and ethnic breads. Production will include multi-grain breads, sourdoughs, bagels, pretzels, holiday or seasonal breads, and flat breads. Special emphasis will be placed on mixing, shaping, and finishing specialty breads; and innovative baking methods. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 774 and 776.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 776

Advanced Baking Principles

We live in a world where many people have special dietary needs. This course examines baking methods and principles from a nutritional and chemical/physical point of view. Topics to be covered include: diets such as vegan, diabetic, low carb and gluten-free, nutritional analyses, and preparation of items for persons with special dietary needs. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 774 and 775.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 777

Chocolate and Confections

This course introduces the student to the tempering of chocolate, creation of chocolate sculptures and simple centerpieces, and production of chocolates and other confections including fudge, fondant, nougat, caramel, toffee and truffles. Emphasis will be on creating confections by hand and with special equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768, 769, 773, and 330BKPS 776; concurrent enrollment in 330BKPS 778.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Baking Pastry (330BKPS) 778

Contemporary Desserts

Assembled and decorated with a modern approach, desserts will be produced using the latest technology and equipment. Students will use specialized equipment, practice new presentation methods, and focus on freshness, simplicity of style, and ease of production. Each student will produce a plated dessert and centerpiece using a variety of the techniques learned throughout the program and showing key elements of production, design, freshness of flavor and consistency. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330BKPS 767, 768, 769, 773, and 330BKPS 776; concurrent enrollment in 330BKPS 777.

15 Laboratory hours. 1 Lecture hours. 6 Credit Hours.

Offered At: KK

Biology (BIOLOGY)

Biology (BIOLOGY) 100

Critical Readings In Biology

Prepares students to read in the life sciences. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Biology (BIOLOGY) 101

General Course Biology I

Basic principles and concepts of biology; general considerations of biological processes, including cellular and organismic levels. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR

Biology (BIOLOGY) 102

General Course Biology II

Continuation of Biology 101. Basic principles and concepts of biology, including how organisms reproduce and inherit; how life on earth evolved and how present day organisms relate to each other. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Biology (BIOLOGY) 103

Biology Of Human Sexuality

Structure and function in human sexuality; sexuality related to physical, mental, and emotional health; the relationships between sexual behavior and human ecology, population, gene frequencies, and society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Biology (BIOLOGY) 107

Nutrition-Consumer Education

Science of food as it relates to health, including food composition and utilization, food preparation and preservation, nutrition, special diets, fad foods, and foods of the future; social and political aspects of food in the world's future. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

GE: Life Sciences

Biology (BIOLOGY) 109**Human Genetics & Evolution**

Basis of inheritance; analysis of human pedigrees; sex-linkage; physical and behavioral aspects of human evolution. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: L1 907 **GE:** Life Sciences

Biology (BIOLOGY) 110**Human Ecology**

Effects of dense population, effect of humans on air, minerals, water, noise; and how these affect humans. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Biology (BIOLOGY) 113**The Biology Of Women**

A comprehensive look at the human female throughout her entire life span. Deals with Biological sex differentiation, fetal development and reproductive anatomy. Explains events of a woman's reproductive life from menarche to menopause, sexuality, birth control, infertility, and pregnancy. Discusses sexually transmitted diseases, gynecological problems, breast cancer, controversial treatments and health care. Examines sociological and cultural health factors that influence a woman's nutrition, physical activity, use of cosmetics, use and abuse of drugs. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

GE: Life Sciences **HD Course**

Biology (BIOLOGY) 114**General Education Biology**

A laboratory course emphasizing scientific inquiry through selected concepts of biology, such as organization, function heredity, evolution, and ecology. Biological issues with personal and social implications will be introduced to enable students to make informed decisions.

This course is equivalent to the Illinois Articulation Initiatives General Education generic course numbered L1900L. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: L1 900L **GE:** Life Sciences

Biology (BIOLOGY) 115**Human Biology**

Examines practical aspects of selected concepts in biology and their application to technology. Concepts may include heredity, growth, development, health, and ecology. Human systems may be studied as they relate to the major topics. Emphasis will be placed on the relationship of the issues to the individual and society. This course is equivalent to the Illinois Articulation Initiative's General Education generic course numbered L1904L. Writing assignments, as appropriate to the discipline, are part of the course

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: L1 904L **GE:** Life Sciences

Biology (BIOLOGY) 116**Introduction to Anatomy And Physiology**

An introduction to human structure and function, from cellular structures to organ systems, with emphasis on scientific processes and common laboratory techniques. Writing assignments, appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, or successfully completing BIOLOGY 120 with a grade of "C" or higher, or consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, MX, OH, TR, WR

GE: Life Sciences

Biology (BIOLOGY) 119**Environmental Biology**

This general education laboratory course is geared for both environmental science majors as well as non-science majors. The environment and human impacts on natural resources, pollution, and ecosystems are emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: OH, TR, WR

IAI: L1 905L **GE:** Life Sciences

Biology (BIOLOGY) 120**Terminology For Medical Careers**

Basic medical vocabulary for allied health professionals and others with minimal background in anatomy and physiology; includes study of the human body systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Biology (BIOLOGY) 121**Biology I**

Cellular and Molecular Biology. Introduction to biochemistry, molecular genetics, cell structure, function and processes. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: BIO 910, L1 910L **GE:** Life Sciences

Biology (BIOLOGY) 122

Biology II

Continuation of Biology 121. Organismal biology, ecology, and evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals, and plants. Emphasis on evolutionary relationships and ecological principles. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course. Biology majors intending on transferring to a four-year institution must complete both Biology 121 and 122 with a grade of C or better.

Grade of C or better in BIOLOGY 121, or Consent of Department Chairperson.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: BIO 910,L1 910L **GE:** Life Sciences

Biology (BIOLOGY) 130

Human Cadaver Anatomy I

Student-directed learning experiences designed to enhance histology and human cadaver competence. Includes osteology, articulations. Skeletal muscles, and neurology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 226.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: MX

Biology (BIOLOGY) 131

Human Cadaver Anatomy II

Continuation of Biology 130. Directed learning experiences are designed to enhance histology and human cadaver competence. Primarily stresses the following areas: cardiovascular, thoracic and abdominal cavity systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (BIOLOGY 226 and BIOLOGY 227), or Consent of Department Chairperson.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: MX

Biology (BIOLOGY) 200

Field Biology

Natural history of local biota. Laboratory and field identification of plants and animals with a study of their habitats and relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

Biology (BIOLOGY) 201

Individual Topics in Biology

Students may conduct laboratory research, engage in a library project, and attend seminars. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: No more than 2 credit hours counted toward graduation.

0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: HW, KK, TR, WR

Repeatable: Yes, up to 2 times

Biology (BIOLOGY) 205

Pathophysiology

This course introduces the students to pathophysiology, which is the systematic study of the functional changes in cells, tissues, and organs altered by disease and/or injury. Students will also be introduced to the molecular and cellular basis of disease. Background in Anatomy and Physiology (Biology 226 and 227) is highly recommended for this course. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of BIOLOGY 115 or BIOLOGY 116 with a grade of C or higher or BIOLOGY 226 and BIOLOGY 227 completion or BIOLOGY 226 completion and concurrent enrollment in BIOLOGY 227.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX, OH

Biology (BIOLOGY) 209

Biochemistry

Biochemistry is designed to give the student in life sciences, allied health fields, and biotechnology a basic understanding of the biological processes at the molecular, cellular and organismic level. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 121 and CHEM 205. Concurrent enrollment or prior completion of CHEM 207 with a grade of C or better, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, MX, TR

Biology (BIOLOGY) 210

Survey Of Biotechnology

This course will serve to introduce students to modern biotechnology which is based on recent developments in molecular biology, especially those in genetic engineering and bioengineering. Students will explore the diversity of the field focusing on such areas as medicine, biohazard, bioremediation, biocatalysis, biosafety, agriculture, forensics, quality control and assurance, testing, regulation, law and policy, intellectual property, proteomics, pharmacogenomics, nutrition, and product development. This course will incorporate speakers that are representative of specific areas in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 121 and CHEM 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, TR

Biology (BIOLOGY) 226

Human Structure and Function I

Human anatomy and physiology. This laboratory course is recommended for those contemplating a career in the health professions and emphasizes the structure and function of the human body. Microscopic and gross anatomy are correlated with physiology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Biology (BIOLOGY) 227

Human Structure and Function II

Continuation of Biology 226. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 226, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Biology (BIOLOGY) 236**Environmental Biology II**

This course is a continuation of Biology 119. Environmental sampling and analysis techniques will be taught in the laboratory. Topics such as environmental toxicology, bioremediation, genetic contamination of plant species, conservation biology, and environmental law, policy and ethics may be covered in the lecture. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: OH

Biology (BIOLOGY) 240**Vertebrate Embryology**

Introduction to the major morphogenetic events in vertebrate development, including development of gametes, fertilization, and the development of organ systems. Special attention will be paid to human development, developmental anomalies, and teratogens. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 226, or consent of department chairperson.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: MX

Biology (BIOLOGY) 241**Genetics**

Principles of heredity, structure of genetic material, mechanism of transmission, and the role of genetics in evolution. Application of these principles to human and other organisms is included. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (BIOLOGY 101 and BIOLOGY 102), or (BIOLOGY 114 and BIOLOGY 115), or Consent of Department Chairperson.

2-3 Lecture Hours. 3-4 Credit Hours.

Offered At: DA

Biology (BIOLOGY) 242**Evolution**

Origin, history and development of plants and animals. Includes evidence from anatomy, paleontology, comparative physiology, biochemistry, immunology, and genetics. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (BIOLOGY 101 and BIOLOGY 102), or (BIOLOGY 114 and BIOLOGY 115), or Consent of Department Chairperson.

2-3 Lecture Hours. 2-3 Credit Hours.

Offered At: DA

Biology (BIOLOGY) 250**Intro To Molecular Biology**

The first course in a three-part series in the biotechnology program/plan 215. This course stresses an introduction to current concepts and progress in modern molecular biology with emphasis on DNA science and genetic engineering as it applies to molecular, cellular and organismic biology. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted toward graduation.

Grade of C or better in BIOLOGY 121, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR

Biology (BIOLOGY) 251**Molecular Biology I**

The second course in a three-part series in the biotechnology program/plan 215. The course stresses the theory and practice of separation techniques and safety procedures that would be employed in the purification and assay of such biomolecules as nucleic acids, proteins and other related substances and the relationship of these molecules to living organisms. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 250, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, TR

Biology (BIOLOGY) 252**Molecular Biology II**

The third course in a three part series, stresses the theory and practice of current techniques used in DNA science, protein isolation, immunology and introduces selected biotechnology protocols. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 251, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: TR

Biology (BIOLOGY) 253**Plant Molecular Biology**

This course is designed for students in the life sciences, and biotechnology to understand how plants function at the molecular level and discuss the current advances in plant molecular biology and genetic engineering. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (BIOLOGY 121 or 250), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Biology (BIOLOGY) 295**Undergraduate Research In Biology**

Undergraduate Research in Biology allows the student to explore a topic of interest under the supervision of a faculty member. The course may include literature readings, research methodologies, attending seminars and professional meetings, engaging in independent research project/study, applying for scholarships, formal presentations or other activities deemed appropriate. In summary, this course provides students firsthand research experience and it encourages them to explore opportunities at upper levels to further develop their research skills. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: not more than an accumulated six credit hours will be counted toward graduation.

Grade of C or better in BIOLOGY 121 or 122 or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2-6 Credit Hours.

Offered At: MX

Repeatable: Yes, up to 3 times

Biology (BIOLOGY) 299

Special Topics In Biology

Special topics in biology and biotechnology will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-5 Lecture Hours. 0-2 Laboratory Hours. 1-6 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Repeatable: Yes, up to 4 times

Botany (BOTANY)

Botany (BOTANY) 201

General Botany I

General biological principles applied to anatomy, physiology, reproduction, and heredity of seed plants. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, OH, TR, WR

IAI: L1 901L GE: Life Sciences

Business (BUSINES)

Business (BUSINES) 111

Introduction To Business

Survey of modern US business, analyzing organization and types of businesses, major business functions, business and the environment, roles played by business and consumers in the economy and various economic systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 141

Business Mathematics

Review of basic arithmetic principles, application of arithmetic operations to business forms and to analysis and solution of problems of percentage, markup and markdown, discounts, interest, prorating, life and property insurance, taxation, and payrolls. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 156

Warehousing Workforce Skills

This course provides training in the workplace practices that contribute to success on the job. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: OH

Business (BUSINES) 158

Warehousing and Distribution Process

This course provides learners with the knowledge and core skills associated with warehousing and distribution. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SCML 155 and BUSINESS 156.

2.5 Lecture hours. 2.5 Credit Hours.

Offered At: OH

Business (BUSINES) 159

Warehousing Technology Skills

Warehousing technology skills are those practices important to working in a technical environment. This course covers the use of scanners and data applications along with the understanding of industrial controls and computers and automation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SCML 155 and BUSINESS 156.

2 Lecture hours. 2 Credit Hours.

Offered At: OH

Business (BUSINES) 161

Prin Of Bank Operations

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, regulations, and examinations. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 180

Fundamentals Of Accounting

This course emphasizes an understanding of basic accounting principles and other business concepts as they apply to the reporting of financial data and other economic events of a business enterprise. Emphasis is on recording, analyzing, and interpreting historical data and showing its effect on the business financially. Writing assignments, as appropriate to the discipline, the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR

Business (BUSINES) 181

Financial Accounting

This course presents accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organization and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements as well as the limitations of using these statements in making forward-looking business decisions are included. The primary content emphasis will be accounting for current assets and liabilities, long-term assets and liabilities, corporations, cash flow statements and financial statement analysis. Writing assignments, as appropriate to the discipline, are part of the course.

BUSINES 111 or BUSINESS 141 or MATH 98 or higher; or concurrent enrollment in BUSINESS 141; or placement test; or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: BUS 903

Business (BUSINES) 182**Managerial Accounting**

This course presents accounting as a system of producing information for use in internally managing a business. The course emphasizes the identification, accumulation and interpretation of information for planning, controlling and evaluating the performance of the separate components of a business. Included is the identification and measurement of the costs of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short-term and long-term business decisions are included. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 181, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: BUS 904

Business (BUSINES) 183**Payroll Accounting**

A comprehensive course that prepares students for the functions of payroll within an organization. Introduces principles, procedures, and terminology for business applications of payroll methods. Emphasizes federal and state payroll records and forms. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (BUSINES 178 or BUSINESS 181), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, TR

Business (BUSINES) 203**Intro Cost Accounting**

General accounting principles applied to factory operations. Includes methods of finding costs of specific orders, lots and processes, and basis of allocating overhead expenses. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 181 or BUSINESS 182

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 204**Computer Applications Intermediate Accounting**

Utilizes a computer to perform major accounting tasks such as recording entries, posting to ledgers, generation of trial balances and financial statements, as well as special reports, all encountered in Business 205. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in BUSINESS 205.

1 Lecture hours. 1 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 205**Intermediate Accounting**

Application of funds, analysis of working capital, investments, inventories, amortization and depreciation, and cost expirations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 182 and concurrent enrollment in BUSINESS 204.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 206**Auditing**

Includes external balance-sheet audits, recent developments in techniques of auditing cash, receivables, inventories, investments, fixed assets, and liabilities. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 205 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 207**Intermediate Accounting II**

Accounting for the rights of creditors and stockholders; principles of fund accounting; statement analysis; special problems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 205 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Business (BUSINES) 208**Federal Income Tax**

Study of the principles of the Internal Revenue Code, practical application of tax rules to the preparation of returns, application of accounting rules to tax matters. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINESS 182 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 211**Business Law I**

Laws of business transactions, including contracts, agency, employment and partnerships, and study of the Uniform Commercial Code. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 212**Business Law II**

Continues study of laws covering corporations, negotiable instruments, sales, real estate, and bailments. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR, WR

Business (BUSINES) 213**Data Visualization and Presentation for Business**

This course provides a foundation for technologies for technologies and functions of spreadsheets, presentations, and Business Intelligence. The course introduces and expands students understanding of presentation and spreadsheet software through experimentation, critical thought, and personalization. Concepts introduced in this course aim to develop an understanding of the different types of business data, various analytical approaches, and application of these approaches to solve business problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 214

The Legal & Social Environment of Business

A study of the legal and social environment of business with emphasis on business ethics and corporate social responsibilities. Areas of concentration include governmental regulation of business, securities law, consumer protection law, labor law and employment law. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 215

Corporate and Entity Federal Income Tax

Study of federal income taxation of business organizations, including corporations, partnerships, limited liability companies (LLC), limited liability partnerships (LLP), limited liability limited partnership (LLLP), low-cost limited companies (L3C), and estates. Taxation of partnerships, with emphasis on the tax laws related to the formations, operations, allocations, distributions, liquidations, and sales/exchanges of partnership interests. Federal estates and gift tax laws with emphasis on the preparation of related tax returns. Ethics and research as appropriate to the discipline are integrated in the course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 208.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 216

Entrepreneurship

Entrepreneurial skills, organization, promotion and management in self-employment or administration in occupations and organizations; research and discussions with successful owners and managers in the business community. Students receive practice in planning, decision-making and self-evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 217

Nonprofit Accounting

Financial transaction analysis and recording system; budget preparation and control; concepts and principles underlying the financial reports of nonprofit organizations in accordance with generally accepted accounting principles (GAAP) and Government Accounting Standards Board (GASB). Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 181, and Grade of C or better or concurrent enrollment in BUSINES 203 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 218

Advanced Accounting

Financial accounting theory for business combinations, presentation of consolidated financial statements, international transactions and investments, fund accounting, foreign exchange and derivatives, investments and partnership accounting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 205 or BUSINES 207 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 221

Insurance

Preparation for the agents or brokers licensing examination. Includes life and casualty insurance, automobile, fire, health and accident, and worker compensation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW

Business (BUSINES) 230

E-Business Marketing

Explores resources, knowledge, skills, practices and techniques necessary to conduct business online. Explores nature and impact of e-commerce on business and business operation, resources required and available, customer relationship management, ordering systems, end-to-end marketing and performance and control systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111 or CIS 120 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, TR

Business (BUSINES) 231

Marketing

Examines the functions and objectives of marketing. Includes flow of industrial and consumer goods through the marketing system, and the role of the consumer, the product, the market, the pricing policies, promotion and distribution methods. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 232

Fundamentals of International Business

Analysis of problems stemming from the movement of goods, services, human resources, technology, finance, and ownership across national boundaries. Direct focus on the development of management skills in handling problems of multinational business. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW

Business (BUSINES) 236

Advertising

Study of basic functions, principles, and techniques of advertising, including the role of advertising in the marketing system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR

IAI: MC 912

Business (BUSINES) 237

Selling

Factors of successful selling of goods or ideas; buying motives, sales psychology, customer approach, and sales techniques. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR

Business (BUSINES) 241**Introduction To Finance**

Surveys methods of financing business enterprises and their relationships to personal and company investment policies. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BUSINES 181, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 244**Personal Finance**

Personal investment programs including the sources and uses of investment information. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

Business (BUSINES) 249**Independent Research**

Independent Research and analysis on topic chosen with the faculty consent, requires a study plan, a paper of length and specification required by the faculty member. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: HW

Business (BUSINES) 250**Computerized Accounting Systems**

Computerized Accounting focuses on exposing the student to various computerized accounting systems and how these systems accomplish the goals of accounting information system of a business entity. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BUSINES 181, or CIS 120 or equivalent, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Business (BUSINES) 258**Small Business**

Organization and operation of small-scale retail, trading, service, or manufacturing business. Problems of location, financing, labor, accounting and production, taxes, and insurance. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR

Business (BUSINES) 259**Introduction to Project Management**

This course develops a foundation of concepts and solutions that supports the planning, scheduling, controlling, resource allocation, and performance measurement activities required for successful completion of a project. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and Grade of C or better in BUSINES 111

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 260**Digital Marketing and Social Media**

This Digital Marketing and Social media course will equip students with the knowledge to ethically and effectively utilize Digital media tools to establish a broader market presence for new and existing businesses.
Grade of C or better in BUSINES 111 and BUSINES 231.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 263**Property and Liability Insurance**

A survey of modern insurance companies, analyzing different types of Insurers, major insurance functions and their impact on consumers, businesses, and worldwide financial markets. Also, the specific interaction between insurance companies, banks, businesses, consumers, the Federal government and their combined impact on the US and World economies. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 264**Personal Insurance**

A survey of personal insurance carriers which includes their product lines, day-to-day functions, an analysis of employment trends and their impact on consumers, businesses, and financial markets. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 265**Commercial Insurance**

A survey of commercial insurance carriers which includes their product lines, day-to-day functions, employment trends and their impact on businesses and financial markets. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 269**Principles Of Management**

Analysis of major functions and principles of management; emphasis on supervisory and operating levels of management; theories, policy-making, effective communications and art of decision-making. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 270**Office Management**

Application of management principles to planning, organization, and controlling of office work. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Business (BUSINES) 271

Human Resources Management

Employment techniques, wages and hours, job evaluation, training, employee ratings, collective bargaining, employment counseling and collateral benefits, such as pensions and fringe benefits. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Business (BUSINES) 272

Sales Management

Planning of sales efforts; management of sales and services; human resources, and controlling sales operations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 111 and BUSINES 237, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 273

Organizational Behavior

This course examines the theories and concepts related to human behavior in organizations. Topics include individual behavior, group behavior, and organizational structure and culture. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 269.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 274

Industrial Management

Characteristics of industrial enterprise, problems of materials procurement, plant organization and layout; labor relations and human resources policies, efficiency techniques, automation, and production development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Business (BUSINES) 278

Compensation & Benefits Administration

This course examines the design and implementation of an organization's compensation systems. Topics include job analysis, base pay structure, incentives, and performance measurements. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 269 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 279

Human Resources Planning & Staffing

This course examines the functions and objectives of human resources planning and staffing. Includes staffing models and strategies, recruitment, selection, employment and retention. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BUSINES 271 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 281

Corporate Organizations: Understanding Business Processes

Records management, editorial duties, correspondence and reports, and work simplification procedures. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business (BUSINES) 284

Business Communications

Study of communication (including motivation, perception, language, distortions, organizations, listening) and its role in the administrative process; patterns of mis-communications (such as by-passing, deception, generalizations, association, labeling) are examined for better understanding of communication process and to improve organizational environment; consideration given to psychological impact of various communications media. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH

Business (BUSINES) 291

Leadership

This course examines the process by which an individual exerts influence over other individuals and inspires, motivates, and directs their activities to help achieve group or organizational goals. Topics include power and influence, participative leadership, leadership theories, and managerial traits and skills. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in BUSINES 269 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Business (BUSINES) 299

Special Topics

Seminar on a special topic or current issue in one or more business fields. Topic should be listed on the student's permanent academic record. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Business and CommercialTechTC1 (330BSCM)

Business and CommercialTechTC1 (330BSCM) 512

Basic Keyboarding III

Development of greater control and speed; typing of short simple business letters; and word division. Writing assignments, as appropriate to the discipline, are part of the course.

3-12 Laboratory Hours. 1-4 Credit Hours.

Offered At: KK

Business and CommercialTechTC1 (330BSCM) 532

Basic Computer Technology

The course introduces management principles and office technology. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 1-2 Credit Hours.

Offered At: KK

CAD Technology (CAD TEC)

CAD Technology (CAD TEC) 130

CAD Technology I

Application of pictorial techniques used in preparation of industrial illustrations; study of oblique, axonometric, perspective and exploded views; methods and techniques of shading, commercial media and reproduction processes. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 100 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

CAD Technology (CAD TEC) 170

CAD Technology II

Introduction to programming techniques using computer-aided design (CAD) systems; use of basic command structures, keyboard and menu tablets; text dimensioning and pen and layer selection. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 100, or ENGR 110, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Repeatable: Yes, up to 1 times

CAD Technology (CAD TEC) 171

CAD Technology III

Intermediate programming techniques using computer-aided design (CAD) systems; techniques of file handling, archiving and plotting; drawing manipulations of translation and rotation to prepare for CAD system operation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ARCHITC 170, or CAD TEC 170, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

CAD Technology (CAD TEC) 172

CAD Technology IV

Advanced planning concepts and designs using computer-aided design systems; techniques of file handling, archiving, and plotting; drawing manipulations of translation and rotation to prepare for CAD system operation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CAD TEC 171, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Cannabis (CANBS)

Cannabis (CANBS) 110

Introduction to Cannabis

Course will discuss the basic life cycle of the plant/plant properties, and the natural origins and evolution of cannabis. Course will also include topics related to how cannabis influenced commercial, medical, ritual and religious practices in culture. Writing assignments, as appropriate are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Cannabis (CANBS) 111

Cannabis and the Law

The course will discuss current policy parameters, legal responsibilities and ethical issues of the cannabis industry. Writing assignments, as appropriate are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Cannabis (CANBS) 112

Dispensary Operations

Dispensary Operations including the logistical concepts that relate to inventory control, distribution, packaging, transfer, and auditing. It will also cover medicinal marijuana dispensing, OSHA 10hr General Industry and Responsible Vendor training. Writing assignments, as appropriate are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: OH

Chemistry (CHEM)

Chemistry (CHEM) 100

Basic Chem Calculations

Arithmetical and algebraic operations as used in general chemical calculations, scientific notation, metric system of measurement and problem-solving techniques employed in general chemistry calculations. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in CHEM 121, Eligibility for ENGLISH 101, Eligibility for MATH 118 or higher or consent of Department Chairperson.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: HW, MX, OH, TR

Chemistry (CHEM) 121

Basic Chemistry I

Principles of general inorganic chemistry, including properties of matter, dimensional analysis, fundamentals of stoichiometry, interpretation of the periodic table, nomenclature and introduction to solution chemistry and commonly used concentration units. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and eligibility for MATH 118 or higher or Consent of Department Chairperson.

5 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: P1 902L **GE:** Physical Sciences

Chemistry (CHEM) 201

General Chemistry I

Topics include the periodic table of the elements, atomic structure, basic concepts of quantum theory, bonding, stoichiometry of compounds and reactions, thermo-chemistry, the gaseous state, basic concepts of the liquid and solid states, solutions, acids, and bases. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 140 or higher and Grade of C or better in CHEM 121 or one year of high school chemistry, or Consent of Department Chairperson.

4 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CHM 911, P1 902L **GE:** Physical Sciences

Chemistry (CHEM) 203

General Chemistry II

Topics include equilibrium, acid-base equilibria, solubility equilibria, kinetics, thermodynamics, electrochemistry, coordination compounds, nuclear chemistry and descriptive topics in organic chemistry. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 201, or Consent of Department Chairperson.

4 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CHM 912

Chemistry (CHEM) 204

Quantitative Analysis

Gravimetric, volumetric, and calorimetric procedures; basic techniques of quantitative measurement applied to the determination of percentage composition, equilibrium constants and the reliability of data. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 203

2 Lecture Hours. 6 Laboratory Hours. 5 Credit Hours.

Offered At: DA

Chemistry (CHEM) 205

Organic Chemistry I

Fundamentals of organic chemistry, orbital and structural theory, aliphatic and aromatic hydrocarbons, alkyl halides, structural isomerism, introduction to functional groups, nomenclature, stereochemistry, reaction mechanisms, resonance theory, and spectroscopy. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 203 or Consent of Department Chairperson.

4 Lecture Hours. 4 Laboratory Hours. 6 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CHM 913

Chemistry (CHEM) 207

Organic Chemistry II

Continuation of study of organic chemistry: alcohols, aldehydes and ketones, carboxylic acids, functional derivatives of carboxylic acids, O, N and S containing compounds, heterocyclic compounds, spectroscopy; laboratory emphasis on organic synthesis and spectroscopic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 205, or Consent of Department Chairperson.

4 Lecture Hours. 4 Laboratory Hours. 6 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CHM 914

Chemistry (CHEM) 212

Survey of Organic & Biochemistry

Survey of organic chemistry, including nomenclature and reactions of major functional groups essential to biochemistry. An introduction to the structure and function of biomolecules, and the metabolism of proteins, lipids, and carbohydrates. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 201 or Consent of Department Chairperson.

3 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, TR, WR

Chemistry (CHEM) 217

Intro Instrumental Analysis

Use of modern optical and electrical methods in chemical analysis: filter photometers; visible, ultraviolet and infrared spectrophotometer; gas chromatographs, radioactive counters, and pH meters; potentiometers; refractometers; polarimeters; and polarographs. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (CHEM 201 and CHEM 205), or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: TR

Chemistry (CHEM) 219

Chemistry for Education I: Matter & Structure

This course is designed to provide educators with a fundamental understanding of matters, its structure and its changes from both a qualitative and quantitative perspective. Physical properties, chemical interactions, bond, and the atomic structure of matter will be explored and mapped to state science education standards. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: TR

Chemistry (CHEM) 295

Independent Research in Chemistry I

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, or Consent of Department Chairperson

1-2 Lecture Hours. 5-20 Laboratory Hours. 2-6 Credit Hours.

Offered At: DA, HW, KK, TR, WR

Chemistry (CHEM) 296

Independent Research in Chemistry II

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 295 or Consent of Department Chairperson.

1-2 Lecture Hours. 5-20 Laboratory Hours. 2-6 Credit Hours.

Offered At: HW, WR

Chemistry (CHEM) 297

Independent Research in Chemistry III

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 296 or Consent of Department Chairperson.

1-2 Lecture Hours. 5-20 Laboratory Hours. 2-6 Credit Hours.

Offered At: HW

Chemistry (CHEM) 298**Independent Research in Chemistry IV**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 297 or Consent of Department Chairperson.

1-2 Lecture Hours. 5-20 Laboratory Hours. 2-6 Credit Hours.

Offered At: HW

Chemistry (CHEM) 299**Independent Research in Chemistry V**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 298 or Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: HW

Child Development (CHLD DV)

Child Development (CHLD DV) 100**Critical Readings in Child Development**

Prepares students to read critically in the field of human development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Child Development (CHLD DV) 101**Human Growth & Development I**

This course provides a foundation in theory and principles of human development, from conception to early adolescence, including an in-depth study of physical, social, emotional, cognitive, and language development, including children's play. Five hours observing young children, ranging in age from birth to age eight, are required. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 102**Human Growth & Development II**

Continuation of Child Development 101. Emphasizes adolescence through late adulthood. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101, or Consent of Department Chairperson

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 107**Health Safety And Nutrition**

This introductory course explores practices that promote good nutrition, dental, physical and mental health, as well as the safety of infants, toddlers, preschool, and school-aged children in group settings. The course has a dual emphasis on the health, safety, and nutrition of young children and adult students. Health, lifestyle, preventative health, community resources, and emergency response procedures are examined. This course introduces cultural beliefs that influence health, safety, and nutrition. It explores ethical and legal responsibilities of adults in protecting the emotional and physical well-being of young children. Five observation hours observing young children in an early childhood education setting are required. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 109**Language & Literacy Development in Early Childhood**

This course explores the developmental process of language and literacy development from birth to age eight. In addition, the course explores the relationship between language, literacy, and all other domains of development. Planning for a variety of developmentally appropriate activities that support language and literacy development are explored, as well as an examination of the role the environment plays and how to design a language and literacy-rich environment for young children. Bilingualism, multiculturalism, and the role of culture in language and literacy development and early childhood education are explored. Eight hours observing young children in an early childhood education setting are required for this course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Grade of C or better in (CHLD DV 101 or 101-1) and CHLD DV 120 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 120**Intro To Early Childhood Education Group Care**

This introductory course is designed to familiarize students with the historic roots and philosophical foundations of early childhood care and education. The course includes an exploration of different types of early childhood programs, the role of the early childhood professional, and an examination of the student's personal qualities in relationship to expectations of the field. The course will include an examination of the role of culture in child development and anti-biased practices in early childhood education. Finally, the course defines the profession and explores the profession's Code of Ethical Conduct. 5 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 130
Special Topics in Child Development

Study of a single topic in child development that would enhance the student's ability to support children and the families of young children. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted toward graduation.
Grade of C or better in CHLD DV 101 or Consent of Department Chairperson.
1 Lecture hours. 1 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 4 times

Child Development (CHLD DV) 141
Activity Programming

Recreational and creative activities as factors which change patterns of behavior in children. Writing assignments, as appropriate to the discipline, are part of the course.
2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Child Development (CHLD DV) 142
Methods & Materials for Infant Toddler Care

This course acquaints prospective Early Childhood Educators with the domains and milestones of child development from birth to age three as well as various strategies for supporting infants, toddlers and their families in center-based and home-based early childhood settings. There is an emphasis on the importance of play and developmentally, culturally and linguistically appropriate materials as well as responsive practices for supporting infants, toddlers, and their families. The course stresses the importance of building an awareness of one's own culture, personal beliefs, values, and biases and how early childhood educators have a responsibility to reflect on their ongoing commitment to cultural responsiveness and equity-based practices. This course requires 5 observation hours in an infant, toddler early childhood setting. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in CHLD DV 101 or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 143
Science & Math for Young Children

This course explores the relationship of play to the content areas of science and math in early childhood. Planning for a variety of developmentally appropriate experiences in mathematics and scientific inquiry are explored as well as an examination of the role of the early childhood environment in supporting development. The course emphasizes the study of cognitive theory as well as observation and documentation of science and math learning in diverse early childhood settings. The course includes student reflections of their own attitudes about science and math. 8 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.
Grade of C or better in CHLD DV 101 and CHLD DV 120, or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 149
Creative Activities For Young Children

This introductory course explores the importance of creative activities in the early childhood curriculum and the relationship of creativity to physical, cognitive, language, social, and emotional development. Planning for a variety of developmentally appropriate, creative experiences that allow young children to play with art, music, movement, literature, and drama is explored as well as an examination of the role of the early childhood environment on creative expression. This course emphasizes the importance of the process of creative expression and provides diverse, creative experiences for adult students so they may understand the arts as a means of communicating ideas, feelings, and cultural expression. 8 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 201
Observation, Assessment, & Documentation to Support Young Children & Families

This course provides an examination of developmentally appropriate techniques for observing, documenting, and assessing the development of young children in order to inform curriculum planning and promote positive guidance strategies. The course emphasizes a strengths-based approach to assessment that includes building partnerships with families and professional colleagues. Self-reflection is a major component of the course as well as the examination of bias in the observation and assessment of young children from diverse backgrounds. 15 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Grade of C or better in CHLD DV 101, CHLD DV 107, CHLD DV 120, and CHLD DV 149 or Consent of Department Chairperson. Grade of C or better or Concurrent enrollment in CHLD DV 109, CHLD DV 143 or CHLD DV 262 is recommended.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 205
Development of Exceptional Child

Study of children whose development does not follow normal patterns; problems of identification, diagnosis and potential assessment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 225
Supervision of Exceptional Child

Techniques in handling and communicating with the deaf, blind, developmentally delayed, and physically challenged child. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 205.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Child Development (CHLD DV) 228**Principles of Child Care Practice**

Role of the child care worker in group/residential settings; primary objectives and goals; re-examination of child rearing responsibilities in light of treatment goals. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Child Development (CHLD DV) 229**Practicum In Residential Child Care**

Twenty hours per week of professional, and supervised training in a Child Care Treatment Program; includes two-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (CHLD DV 102, and CHLD DV 201, and CHLD DV 228), and SOC SER 212, or Consent of Department Chairperson.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: KK

Child Development (CHLD DV) 230**Intr To Early Intervention**

Introduction to the field of early intervention and the role of the Early Intervention Associate. Includes units covering the background and current status of the field, an overview of the characteristics of normal versus at-risk and special needs population of infants and toddlers, and theoretical models and strategies of early intervention, including Individualized Family Service (IFS) planning and team building. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in ENGLISH 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, TR

Child Development (CHLD DV) 248**Principles & Practice of Infant & Toddler Care**

This course provides opportunities to plan for developmentally appropriate, evidence-based, and culturally competent care and education for young children from birth to age three using a comprehensive framework of best practices, historical, philosophical underpinnings, personal reflections, and environmental design strategies. Emphasis is placed on the importance of building positive relationships and creating an environment conducive to exploration and play to support the social, emotional, cognitive, physical, language, and literacy learning of infants and toddlers. This course focuses on the student as developing within the Early Childhood Educator profession with an emphasis on ethical conduct specific to infant and toddler care. This course requires 10 observation hours in an infant/toddler, early childhood setting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 142 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 258**Principles & Practices of Pre-School Education**

This class provides opportunities to plan developmentally appropriate play-based activities that support all developmental domains including physical, cognitive, language, and socioemotional development with an emphasis on designing appropriate early childhood environments that address the needs of all children. The course emphasizes the process of becoming a professional including the implementation of the NAEYC Code of Ethical Conduct and other professional guidelines as well as fostering an early childhood environment that is conducive to respecting diversity. Students will write/revise their philosophy of early care and education. 30 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course. *Grade of C or better in CHLD DV 101, 107, 109, 120 and 143, or Consent of Department Chair. Grade of C or better in CHLD DV 201 or CHLD DV 262 recommended.*

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 259**Practicum In Pre-School**

In this capstone course, students spend a minimum of 250 student teaching hours in an early childhood program under the direct mentorship of an on-site supervisor, field supervision by the course instructor, and weekly 2-hour seminar discussions with classmates. Students are expected to apply what they have learned in all previous CD courses including: engaging in positive interactions with young children, planning developmentally appropriate activities, and using appropriate assessment techniques. Students will uphold professional and ethical guidelines. Students will design and revise a Child Development Portfolio compiled of artifacts from their previous coursework and other professional experiences. An emphasis is placed on the NAEYC Standards for Professional Preparation. 250 student teaching hours with on-site supervision in an early childhood education setting are required for this course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101,107,109,120,143,149,201,258 and CHLD DV 262. To register for this course, all students must have Consent of Department Chairperson.

2 Lecture Hours. 20 Laboratory Hours. 6 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Child Development (CHLD DV) 260**Administration & Supervision of Pre-School Centers**

For those with experience as teachers or directors of nursery schools or day care centers who wishes to improve their skills in administration and supervision. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR

Child Development (CHLD DV) 262
Child, Family & Community Relations

This course explores the importance of building positive relationships between young children, their families, the community, and the early childhood setting. It examines issues of diversity, multiculturalism, and anti-bias approaches in working with young children, their families, and the community as well as current policies, and practices that influence families. This course promotes self-reflection, cross cultural communication, and sensitivity to cultural, linguistic, and ability diversity. 5 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Grade of C or better in CHLD DV 101 and CHLD DV 120, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

HD Course

Child Development (CHLD DV) 269
Practicum in School Age Child Care

In this capstone course, students spend a minimum of 250 student teaching hours in a school-age program under the direct mentorship of an on-site supervisor, field supervision by the course instructor, and weekly 2-hour seminar discussions with classmates. Students are expected to apply what they have learned in all previous CD courses including: engaging in positive interactions with young children, planning developmentally appropriate activities, and using appropriate assessment techniques. Students will uphold professional and ethical guidelines. Students will design and revise a Child Development Portfolio compiled of artifacts from their previous coursework and other professional experiences. An emphasis is placed on the NAEYC Standards for Professional Preparation. 250 student teaching hours with on-site supervision in an early childhood education setting are required for this course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course. Students spend 20 hours a week, under supervision, working with children in a school-child care setting; 17 weeks with a 2 hour seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: HW

Child Development (CHLD DV) 299
Special Topics in Child Development/Early Childhood

This course is focused on a special topic or current issue in the field of early childhood care and education. This course requires field experience hours in an early childhood setting. Writing assignments, as appropriate to the discipline, are part of the course

Consent of Department Chairperson.

0.5-3 Lecture Hours. 4 Laboratory Hours. 1-4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Repeatable: Yes, up to 4 times

Chinese (CHINESE)

Chinese (CHINESE) 101

Introduction to Chinese

This course introduces the basic elements of Mandarin Chinese that will enable the students to develop communicative language skills, basic conversational skills, as well as grammar and vocabulary knowledge in Chinese. Intensive drills on sound and tones, vocabulary, and sentence patterns in meaningful contexts will be used in order for the students to communicate appropriately and accurately in authentic contexts. The course will introduce students to the diverse culture, history, and social etiquette of China. Writing assignments, as appropriate to the discipline, are part of the course.

ACTFL Writing Proficiency Test (Score 1.00), or Eligibility for ENGLISH 101, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, MX

HD Course

Chinese (CHINESE) 102

Chinese II

This course is designed for students who have acquired some oral proficiency, but lack formal training and literacy. It teaches more advanced grammar rules while reviewing basic ones. Students will learn how to use a bilingual dictionary to assist their reading of essays and short stories. They will learn to write notes, letters, and paragraphs. The course will introduce students to the diverse culture, history, and social etiquette of China. Writing assignments, as appropriate to the discipline, are part of the course.

ACTFL Writing Proficiency Test (Score 2.00), or Grade of C or better in CHINESE 101, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, MX

HD Course

Chinese (CHINESE) 103

Chinese III

This course is designed for students who have acquired some oral proficiency and basic grammar rules of Mandarin Chinese. It will emphasize four skills: speaking, listening, reading, and writing in culturally authentic situations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHINESE 102 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, MX

HD Course

Chinese (CHINESE) 104

Chinese IV

This course provides intensive work in the use of Mandarin Chinese through listening, speaking, reading, and writing and through continued enhancement of the cultural awareness intrinsic to those four skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHINESE 103 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, MX

IAI: H1 900 GE: Humanities HD Course

Communication Design (COM DSGN)

Communication Design (COM DSGN) 101

Introduction to Communication Design

Introduction to the communication design industry through the application of industry-standard software and essential skills, concepts, and design techniques. Digital image editing, illustration, page layout and the processes in each will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 102

Website Design I

Basic procedures in preparing website design and production; includes web code techniques, color theory, typography and composing style sheets and photo layout. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 104

Digital Photography

Basic study of the industry and practice of photography using the digital camera. Topics include basic camera operations and techniques, portraits, lighting, and post-production techniques such as editing and retouching. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 132

Publication Design

A study of digital publication design and digital prepress production with emphasis on planning and problem-solving in layout and desktop, desktop publishing, digital imaging, proofing and digital print work. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Grade of C or higher in COM DSGN 101 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Communication Design (COM DSGN) 150

Graphic Design I

An introductory course on the foundations, principles and elements of graphic design. Students will utilize industry-standard professional graphics software to explore various concepts in visual communication for both print and electronic media. Industry terminology and practices will be presented with an emphasis on problem-solving and the design process. Students will apply the theories of graphic design to produce various deliverables such as corporate identity, advertising and brochures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COM DSGN 101 and ART 144 or consent of the Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 202

Website Design II

Focus on website design and production; Includes web code techniques, color theory, typography and composing style sheets and photo layout. Explores animation on the web using current web publishing software applications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher in COM DSGN 102 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 212

Motion Graphics I

Basic study of animation using industry-standard vector software to create motion, including animated shorts, information graphics, and multimedia presentations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher in COM DSGN 101 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 213

Motion Graphics II

This course is a continuation of the study of motion graphics with an interest in commercial applications using industry-standard software. Topics include motion graphics principles, design and composition, timing, storyboarding and planning, visual storytelling, sound and music development, and synchronization. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COM DSGN 212 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 224

Digital Typography

This course is designed to familiarize the student with the computer hardware and software application used in the visual communication industry. Emphasis on the study of typography font design, specification, effects and copy fitting. Also, a study of the historical developments of typography from ancient to modern times will be studied. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Grade of C or better in COM DSGN 101 and ART 144 or consent of the Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Communication Design (COM DSGN) 250

Graphic Design II

An intermediate course on the principles and elements of graphic design with a focus on three-dimensional design such as packaging and environmental design such as merchandising displays and signage. Students will also be introduced to the concepts of brand development and target marketing for the retail environment. Students will utilize industry-standard professional graphics software to explore appropriate concepts in visual communication. Industry terminology and practices will be presented with an emphasis on problem-solving and the design process. Students will apply the theories of graphic design to produce various deliverables such as packaging, point-of-purchase displays, signage and other 3-dimensional designs. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COM DSGN 150 or consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Design (COM DSGN) 290

Practicum Internship

This course is designed to provide the student with further academic support while completing the Visual Communications practicum internship to gain experience in the field. On-the-job strategies, furthering student's design education and training, seminars for career development as well as other topics that are career-related will be discussed. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Completion of the Communication Design curriculum or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Communication Design (COM DSGN) 298

Design Studio

This capstone class prepares students for the visual communications industry, including the study of design and the design business: sales, marketing, strategic planning, production, estimating, services, studio layouts, staff positions, management and proposal writing. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of the Communication Design curriculum or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Communication Media (CMMEDIA)

Communication Media (CMMEDIA) 163

Film Rhetoric

Introductory film making skills, both camera and editing; film viewing designed to cultivate students' understanding of how films affect them; includes terminology, effects of film on people, how these effects are achieved, and concepts of criticism and advertising. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

IAI: F2 909 **GE:** Fine Arts

Community Health Care Worker (CHW)

Community Health Care Worker (CHW) 107

Health and the Public

Students will examine both historical and contemporary public health stories focusing on the United States to begin to understand the contexts, systems, professionals, tools and skills associated with the public health enterprise. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 110

Public Health and Global Societies

The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will be presented with an overview of the determinants of health and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will cover key concepts and frameworks but will be very practical in orientation. The course will be global in coverage but with a focus on low-and-middle income countries and on the health of the poor. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 120

Public Health Study of Disease & Epidemics

This course is designed to introduce the basic principles surrounding the distribution of disease and epidemics in human populations. Through the use of lectures and field exercises, students will learn the fundamentals of epidemiology, and the basic science of public health. From historical perspectives to current day context, how disease differentially impacts populations will be the focus. Topics covered include surveillance of disease, the distribution of health outcomes (with particular emphasis on health inequities), outbreak investigation, the impact of the media on health outcomes, measurement of health outcomes, study design, and the impact of epidemiologic students on policy development and implementation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Higher

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX

Community Health Care Worker (CHW) 121**Introduction to Community Health Work**

This course provides an overview of the health care system and community health work. Students will gain an understanding of the role of the community health workers, the scope of their function and the types of services they may provide, and how they interact with other health personnel and resources. It includes principles of effective verbal and non-verbal communication to assist students in encouraging positive interaction. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Higher

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX

Community Health Care Worker (CHW) 125**Nutrition, Exercise and Disease**

This course will provide students with the information necessary to promote healthy eating styles and proper food preparation for all age groups. This course gives students information about identifying the relationship of diet to disease. Attention is given to the treatment of disease by diet modification. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Higher

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX

Community Health Care Worker (CHW) 126**Human Development Overview**

This course provides students with information on pre-conceptual, prenatal care, fetal development and newborn care. Students will gain an understanding of the various stages of human development and recognize their role in promoting acceptable standards of health care. This course includes information of the important role parents have in the development of children. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHW 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 127**Portfolio Development**

This course provides students the opportunity to carefully select, purposefully organize their professionally related academic accomplishments. It provides documentation of the student's having met the entry-level competency skill standards for community health workers. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and CHW 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 128**Adult and Senior Health**

This course will focus on adult health throughout the early, middle and later stages of adult development and health issues. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and CHW 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 129**Substance Abuse Issues**

This course gives the student an overview of what substance abuse is and how to recognize it. Students will become familiar with misuse and abuse of substances ranging from over the counter medications to highly controlled narcotics. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and CHW 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 130**Mental Health Issues**

This course will provide an overview of mental issues and concerns of community and families. This course also covers the more prevalent diseases such as depression, domestic violence, developmental delays, alcoholism, etc. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Higher

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX

Community Health Care Worker (CHW) 131**Case Management Fundamentals**

This course is designed to provide the student with the basic case management skills. The focus of this course is on the main components of case management, outreach, screening, intake, referrals, and follow-up. Students will learn about home visits, universal precautions and handling emergencies on the job and in the community. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and CHW 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Community Health Care Worker (CHW) 132**Field Experience**

This course is an introduction to clinical experience in community health that includes field experience and basic skills for working effectively in communities in order to serve as a liaison between health care and social service providers and the communities they serve. It includes providing patient advocacy, utilizing professional communication skills, and incorporating approaches for working effectively with community health agencies such as public health departments, schools, correctional health, and other appropriate agencies. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Higher

8 Laboratory hours. 4 Credit Hours.

Offered At: DA, MX

Comparative Religion (RELIGN)

Comparative Religion (RELIGN) 101**Introduction To Religion**

Introduction to the nature, origin, beliefs, practices, and development of religion in society. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

IAI: H5 900, H5 904N **GE:** Humanities

Comparative Religion (RELIGN) 102

The Bible - Hebrew Old Test

The study of the Old Testament with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

IAI: H5 901 **GE:** Humanities

Comparative Religion (RELIGN) 103

The Bible - New Testament

The study of the New Testament, with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

IAI: H5 901 **GE:** Humanities

Comparative Religion (RELIGN) 104

Islamic Scriptures: The Qur'an

The study of the Qur'an with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH, TR, WR

IAI: H5 901 **GE:** Humanities

Comparative Religion (RELIGN) 106

Comparative Religion I/Eastern Religion

Comparison and investigation of major Eastern religions. Includes origins, rituals, religious knowledge and destiny. This course concentrates on the religions of the Eastern world. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, TR, WR

IAI: H5 904N **GE:** Humanities HD Course

Comparative Religion (RELIGN) 107

Com Rel II Western Religion

Comparison and investigation of major Western religions. Includes origins, rituals, religious knowledge and destiny. This course concentrates on the religions of the Western world. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR

IAI: H5 904N **GE:** Humanities HD Course

Comparative Religion (RELIGN) 108

Religion And Psychology

The study of the relationship between religion and psychology. Includes the similarities between religious and psychological phenomena; ways religion and psychology shape and influence one another; and how human needs are met through the blending of religious and psychological experiences. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH, TR

GE: Humanities

Computer Information Systems (CIS)

Computer Information Systems (CIS) 101

Computer Science 101

An introductory course in computer science and programming, with emphasis on the logical analysis of a problem and the formulation of a computer program leading to its solution. Topics include basic concepts of computer systems, computer types, cloud computing, and computer programming languages. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 102

Intro To Programming Logic

Techniques and problem-solving aids necessary for efficient solution of computer programming problems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, MX, OH

Computer Information Systems (CIS) 103

Fundamentals of Programming

How to use a language to program a computer for real world problem solving in mathematics, science, business and other fields. The course will feature elements of program design, data types and expressions, procedures and modularity, conditions and loops, data and control structures, development of algorithms, and writing and debugging programs. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 Eligibility or Successful Completion of CIS 101 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 111

Computer Operations

This course introduces operation and routine maintenance of hardware technologies; central processing unit; peripheral devices; network setup and connecting; notebooks; and printers. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 112**Advanced Computer Operation**

Operating system concepts; program resources, and their allocations, job scheduling, exception handling, set-up, relationship between operating system, hardware and user program, time sharing and teleprocessing. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 111.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Computer Information Systems (CIS) 113**Human-Computer Interaction**

This course introduces students to the user interface development process, including evaluating, managing, and differentiating interaction styles. Design limitations and issues will be discussed, as students explore the design of computer interfaces. Students will follow an interactive design process to create a user-centered interface. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 114**Mobile Application Development**

This course emphasizes development in an application language appropriate for mobile devices. This course covers programming logic, tools, and code syntax. It also covers designing interfaces to create an interactive multimedia mobile app. Students are expected to have some previous programming experience. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 142 or CIS 144, or consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 116**Operating System I**

An overview including a theoretical and practical framework for the study of controlling software in the microcomputer environment using prevailing cooperating systems. The concepts of interrupt handling, scheduling and query techniques, and access and storage methods will be clarified through readings and discussions. Writing assignments, as appropriate to the discipline, are part of the course. No more than 3 credit hours will count towards the CICT requirements. Additional earned credit hours up to 6 will be counted towards elective and requires Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Computer Information Systems (CIS) 117**Introduction to Apple Development**

This course gives students a solid foundation in computer programming fundamentals, but using the Apple Swift language for coding mobile Apps. Throughout this course, students will gain practical experience with the tools, techniques, and concepts needed to build basic apps for Apple devices from scratch. Topics include software development methodology, data types, control flow, functions, storage containers, and the mechanics of testing and debugging Apps. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Computer Information Systems (CIS) 118**Information Technology Problem Solving**

The course introduces students to a wide variety of problem solving methodologies and Information Technology tools that build problem solving skills needed to effectively meet the challenges of real world scenarios. They will use a variety of IT tools including programming, social media and networking among others. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 119**Apple User Management**

This course will introduce students to the various Apple operating Systems that are used to control and manage Apple computing devices. The course also teaches students the fundamentals of using Apple devices such as phones, tablets, media and computers. In addition, hardware management concepts are covered in order to guide students through the steps necessary to effectively use these devices with peripherals, storage, and networking equipment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Computer Information Systems (CIS) 120**Introduction to Computer Applications**

Fundamental concepts of computer information systems as applied to microcomputers in business and individual use; includes hands-on experience with a variety of microcomputer software. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the consent of Departments Chairperson. ARC: 3 times.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: BUS 902

Repeatable: Yes, up to 3 times

Computer Information Systems (CIS) 122**Intro to Word Processing on Microcomputers**

In-depth concepts of word processing as they apply to microcomputers in business and personal use. Laboratory assignments provide hands-on experience with microcomputer word processing software. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 3 times

Computer Information Systems (CIS) 123

Microcomputer Spreadsheets

Fundamental concepts of computer programs as exemplified in the electronic spreadsheet. Emphasis on business applications and personal financial management and tax preparation. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 3 times

Computer Information Systems (CIS) 130

Intro to Assembler Programming

Writing programs demonstrating use of assembler language. Writing assignments, as appropriate to the discipline, are part of the course. *Grade of C or better in CIS 103 and CIS 135, or Consent of Department Chairperson.*

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Computer Information Systems (CIS) 142

C++ Object Oriented Programming I

Fundamentals of structured object-oriented C++ programming through a study of program specification and design, algorithm development, flowcharts, problem solving, programming concepts, classes and methods, control structures, arrays, strings, coding and testing using a modern software development environment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 118 or higher, or consent of Department Chairperson. (CIS 101 is recommended)

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CS 911

Computer Information Systems (CIS) 144

Java Object Oriented Programming I

A block-structured high-level programming language commonly used in internet applications; including procedural and data abstraction programming styles; the concepts of design, testing, and documentation in programming, programming platforms, and software developments; selection, repetition, and sequence control structures; the basic programming elements of arrays, records, and files. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 118 or higher, or consent of Department Chairperson. (CIS 101 is recommended)

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CS 911

Computer Information Systems (CIS) 145

Database Management

In-depth concepts of database as they apply to microcomputers in business and personal use to build information management systems. The network, hierarchical, and relational models are discussed. DBMS on microcomputers are used for lab assignments to implement the relational models. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 3 times

Computer Information Systems (CIS) 158

Web Development I

Course emphasis will include the design and development of standards-based HTML, XHTML, and CSS documents with an introduction to Javascript. Previous knowledge of file management, including downloading and uploading, is required. Writing assignments, as appropriate to the discipline, are part of the course. *Grade of C or better in CIS 101 or Consent of Department Chairperson.*

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 171

Computer Mathematics

Survey of numbers systems, conversion of one number system into another; fundamental operations of binary, octal and hexadecimal arithmetic. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 99, or Grade of C or better in MATH 140.

3-4 Lecture Hours. 3-4 Credit Hours.

Offered At: DA

Computer Information Systems (CIS) 181

Web Development I/Basic Web Technologies

This course covers website architecture, layout structure, documentation, and user interface development with an emphasis on valid and semantic code. Style sheets will be used to organize and present page content. Responsive design techniques and tools will be used to build a robust website. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 Eligibility or Successful Completion of CIS 101 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 182

Web Development II/Client Side Scripting

This course focuses on client-wide scripting language to verify data entry, to manipulate and control web page elements, and to store information on client machines using cookies. This course also introduces students to industry-standard client-side scripting libraries as well as concepts of data handling. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 181, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 201**Advanced Apple Development**

This course is a further exploration into the SWIFT Object Oriented Programming language concepts and methods for creating mobile Apps for iPhones and iPads. Students will also learn how to create multi-screen Apps using the Xcode design interface. Through a series of guided and unguided projects, students will learn to effectively connect programming code to user interface objects for creating engaging mobile Apps for Apple devices. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 Eligibility and Completion of CIS 117 -Introduction to Apple Development with grade of C or better, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Computer Information Systems (CIS) 203**Advanced Basic Programming**

Event-driven programming using the Visual Basic programming language. Includes algorithm development, structured design and file processing, and the use of various controls including control arrays, exception handling and the use multiple forms. Introduces database manipulation using Microsoft Access and database controls. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 103, or Grade of C or better in CIS 142, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR

Computer Information Systems (CIS) 242**C++ Object Oriented Programming II**

Building on prior programming experience, design and implementation of large-scale programs; abstract data types; and data structures: files, sets, pointers, lists, stacks, queues, trees, graphs. Program verification and complexity, recursions, and dynamic concepts: memory, scope, block structures. Text processing and introduction to searching and sorting algorithms. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 142, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CS 912

Computer Information Systems (CIS) 244**Java Object Oriented Programming II**

Use fast, secure, and reliable Java programming language for designing and implementing applications and websites; management of abstract data types; data structures (lists, stacks, queues, trees, graphs); program verification and complexity; recursion; dynamic concepts (dynamic memory allocation); text processing, and an introduction to searching and sorting algorithms. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 144 or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CS 912

Computer Information Systems (CIS) 245**Principles of Software Development**

This course introduces and applies the methods and procedures used in the analysis and design of software within modern software engineering fields. Topics covered will include Software Architecture, cloud software, etc. Students are expected to have some previous programming experience and to develop software that covers the topics introduced in class. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in Computer Information System (CIS 101) and Fundamentals of Programming (CIS 103) or consent of the Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 250**Systems Analysis and Design**

This course provides students with theory and practice associated with the analysis and design of computer-based information systems. Fundamental topics include systems theory, the role of the information system in operating and managing the organization, systems design concepts, forms and work-flow, entity relationship diagramming, equipment selection, and implementation of systems. Other topics include the function of design tools such as CASE planning techniques, and project management. Hands-on activities will be introduced at each face of the SDLC with built-in security measures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 101 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 251**Intro to Database Management Systems**

Examination of data manipulation needs and comparison of traditional processes for meeting needs with data base approach; use of computer simulations to practice and apply database management system (DBMS) techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR

Computer Information Systems (CIS) 255**Operating Systems II**

This course introduces prevailing operating systems and their relationship to servers in the work environment. Course covers distributions and licensing, system installation and configuration, file system management, system scripting and usage, resource administration, user and group management, process, services and kernel management, and network configuration. Students will also learn how to set up network and other services on a server system and perform remote administration. Administrative tasks include file compression, system backup, and software installation. Topics in troubleshooting, performance tuning, virtualization and system security are also covered in this course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 116 or COMPSFI 101 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 258

Web Development II

Extends introductory concepts of CIS 158, using a variety of Internet and general networking concepts, including interactive forms and CGI programming for the World Wide Web, multimedia development, Intranets, server installation and management, and database connectivity, and simple website administration. This will include multimedia additions, setting design styles, and installing on a web server. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 158 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Computer Information Systems (CIS) 260

Computer Information Systems Field Project

This is a capstone course that provides students with practical application of computer skills by participation in a planned and coordinated field project. At the start of the class, specific goals and requirements will be carefully outlined to ensure that the student is aware of his or her responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

CIS 260 - Prerequisites: Minimum of 18 credit hours completed with a C or better in CIS or NET TEC or CSFI courses, and consent of Department Chair.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 265

Computer Information Systems Internship

This course is designed to enable students to combine classroom training with practical Information Technology (IT) work experience through supervised on-the-job training in a public or private IT setting. IT interns may work at IT companies or for the IT department at larger business and corporations. They work alongside and support IT staff in software, hardware and other types of IT tasks and issues including networking, security, and software development. A minimum number of on-site hours is required for this course. Internship placement must be approved by the Program Chair/Coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Minimum of 18 credit hours completed with Grade of C or better in CIS -OR- NET TEC -OR- COMPSFI courses, and Consent of Department Chairperson.

10 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 281

Web Development III/Server Side Programming

Continuation of CIS 182. Part III presents dynamic web programming using server side programming techniques. Database integration into website is also introduced. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NET TEC 101 or CIS 182, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 282

Web Development IV/Web Database Integration

Continuation of CIS 281. Part IV covers advanced topics in web development, including but not limited to Error Handling, Email, User Profile, Content Management, basic Online Store and E-Commerce Fundamentals. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 281, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Computer Information Systems (CIS) 299

Special Topic Comp Info Sys

Special topics in CIS will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

1-4 Lecture Hours. 1-4 Credit Hours.

Offered At: KK, TR

Repeatable: Yes, up to 4 times

Construction Management (432CMGT)

Construction Management (432CMGT) 601

Introduction to Construction

The course is designed to give the student a foundation in the basic concepts of construction. The course focuses on the fundamental skills needed in the industry for the core construction class; industry related terminology, construction processes and procedures, scale reading, applying construction calculation, measuring, tools and usage, and industry job descriptions. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 602

Methods of Building Construction

The course is designed to develop an understanding of the methods of construction of residential and commercial type building and includes a survey of different types of construction and their advantages and limitations. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 603

Building Materials and Testing

Examination of the characteristics of materials such as wood, masonry, concrete, iron, and steel relative to their basic use in the construction industry. The physical properties of each will be studied relative to actual in-service behavior. This course is an introduction to the field and laboratory methods of testing soils, concrete, and steel. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 604**Blueprint and Specifications**

Designed to provide proper knowledge of blueprints reading as it relates the architectural or building construction industry. The course covers the theory of orthographic projections, reading floor plans and elevations drawings, symbols and notations, scaling and dimensioning practices, reading blueprints of structural information, electrical and mechanical trade drawings. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 605**Construction Cost Estimating**

This course is designed to provide the students with a basic introduction to the methods of construction, estimating and developing the associated costs. Students will gain a working knowledge of materials takeoffs, the estimating process, building and estimating spreadsheets, unit cost, assembles for different trades, overhead and profit. Manual and computer approaches to solving estimating problems will be used. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 432CMGT 604 and CIS 120.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 606**Construction Contracting Specs**

Introduction the functions and operations of a construction office, including bidding, construction contracts and specifications, bonds and insurance, labor law and labor relations. Legal aspects and interpretation of contracts and specifications. This course is designed to give the student a general working knowledge of the various types of contracts, specification, and delivery methods. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 432CMGT 604.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 607**Construction Scheduling/Management**

An introduction to the methods of construction scheduling and project management. Students will become familiarized with using different scheduling approaches, how to handle worksite paperwork, and to plan the need for manpower, materials, and equipment coordination with the project budget. The course will use manual and computer approaches to solving scheduling programs. Discussion and critical path methods (CPM) and analysis are included in the course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 432CMGT 604 and CIS 120.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 608**Project Management**

This course is designed to provide the student with a basic understanding of the process of a construction project and provide the tools that are necessary to estimate or manage a construction project. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 432CMGT 604, 607, and CIS 120.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 609**Construction Safety II**

This course covers thirty (30) hours of training, required by the Occupational Health and Safety Act (OSHA) that apply toward the 30-hour Construction Industry course completion card. The course covers topics pertaining to regulations covered by Standard 28 CFR 1926. Upon successful completion of the course, participants will receive an OSHA construction safety and health 30-hour course completion card from the Department of Labor. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Construction Management (432CMGT) 610**Construction Internship**

This course is designed to give the student the practical application of current construction methods. There will be a variety of projects from the residential and commercial sectors. The sites selected will vary due to availability and weather. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

3 Laboratory hours. 3 Credit Hours.

Offered At: KK

Construction Materials Technic (432CNMT)

Construction Materials Technic (432CNMT) 611**Hot Mix Asphalt Level I**

This course will include an introduction to laboratory and field equipment including proper utilization and calibration. Testing and general information on asphalt and the IDOT QC/QA will be presented. Student will be prepared to sit for the IDOT Level I certification in performing Hot Mix Asphalt (HMA) testing in the laboratory and field. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Construction Materials Technic (432CNMT) 612**Portland Cement Concrete Level I**

The course is designed to prepare the student for level ACI/IDOT certification in performing Portland Cement Concrete (PCC) activities in the laboratory test. Testing and general information on the PCC and the IDOT QC/QA will be covered. Persons completing this course will be able to do the field testing for PCC and QC/QA projects. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Construction Materials Technic (432CNMT) 613**Aggregates and Soils Level I**

This course is designed to prepare the student for IDOT 3 day Aggregates and Soils certification in performing aggregates and soil material testing in the laboratory, including typical laboratory test methods and in the field. Writing assignments, as appropriate to the discipline, are part of the course.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: KK

Cooperative Work Experience (COOP EX)

Cooperative Work Experience (COOP EX) 101

Coop Education Exploration

Career planning, job entry skills, guidance to assist students in exploring and assessing their interests, aptitudes and abilities for consideration of career goals; development of skills necessary for job search success and job entry preparation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 100 or Grade of C or better in ENGLISH 127 and Grade of C or better in READING 125, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

Cooperative Work Experience (COOP EX) 105

Business Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Cooperative Work Experience (COOP EX) 106

Commercial-Data Processing CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, WR

Cooperative Work Experience (COOP EX) 107**Health CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, MX

Cooperative Work Experience (COOP EX) 108**Engineering & Industrial Technologies CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Cooperative Work Experience (COOP EX) 109

Natural Science Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH

Cooperative Work Experience (COOP EX) 110

Public & Human Services CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, WR

Cooperative Work Experience (COOP EX) 205**Business Technologies CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Cooperative Work Experience (COOP EX) 206**Commercial-Data Processing CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, WR

Cooperative Work Experience (COOP EX) 207

Health CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, MX

Cooperative Work Experience (COOP EX) 208

Engineering & Industrial Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Cooperative Work Experience (COOP EX) 209**Natural Science Technologies CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, WR

Cooperative Work Experience (COOP EX) 210**Public & Human Services CWE**

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 2 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 2 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 1 semester credit hour. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 3 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: DA, KK, OH, WR

Cosmetology (COSMET)

Cosmetology (COSMET) 101**Intro to Cosmetology/Barbering**

Topics covered in this course include orientation to the cosmetology field, its history, and the current state of the profession. This course also provides a foundation for understanding the histology of hair, principles of personal hygiene, requirements and procedures for sterilization, disinfection and sanitation, roller control, manicures and pedicures. Additionally, thermal and long-hair styling will be introduced. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96, or ESLINTG 99 and FS MATH 3001.

9 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 102**Hair Cutting Technology**

Students learn to identify, safely use and properly care for the various types of tools used for cutting and shaping hair. Students develop skill and proficiency in shaping hair with scissors and razors, as well as in various methods of cutting hair as required by specific hair styling and permanent waving. Considerable emphasis is placed on efficiency and quality. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COSMET 101 or concurrent enrollment in COSMET 101

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 103

Basic Styling Technology

Through this course, students receive comprehensive instruction regarding the tools, materials, equipment and methods of basic hair styling techniques, both wet and thermal. Emphasis is placed on adapting hairstyles to suit the individual by analyzing texture, elasticity and porosity of various types of hair. Braiding, extensions and wig making techniques are also introduced. The course provides opportunities for the clinical application of services for which the student has received training. The student must pass the 600 proficiency exam both written and practical as part of the course requirements. Work is performed under the direct supervision of a licensed instructor.

Grade of C or better in COSMET 102 or concurrent enrollment in COSMET 102

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 104

Basic Chemical Technology

Through this course, students will learn about chemical texture services, hair color, implements, materials and products used during chemical application techniques. Through comprehensive hair analysis, the student will make informative decisions regarding chemical textures services and hair color formulations. This course provides opportunities for the clinical application of services for which the student has received training. The student must pass the 900 Proficiency Exam, both written and practical, as part of course requirements. Work is performed under the direct supervision of a licensed instructor.

Grade of C or better in COSMET 101. Grade of C or better or concurrent enrollment in COSMET 102 and COSMET 103.

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 105

Salon Technology I

This course provides opportunities for the practical application of specific cosmetology customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed and experienced instructor. Emphasis is placed on the development of proficiency of client services. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COSMET 101, 102, 103, and completion of or concurrent enrollment in COSMET 104

15 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 106

Salon Technology II

This course provides opportunities for the practical application of specific cosmetology customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed and experienced instructor. Emphasis is placed on the development of proficiency of client services and career development.

Grade of C or better in COSMET 101, 102, 103, 104, and completion of or concurrent enrollment in COSMET 105.

15 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 107

Barber Salon Technology I

This course provides opportunities for the practical application of specific barbering customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed instructor. Emphasis is placed on the development of proficiency of client services. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COSMET 101,102,103, and COSMET 104 or concurrent enrollment in COSMET 104.

15 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 108

Barber Salon Technology II

This course provides opportunities for the practical application of specific barbering customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed instructor. Emphasis is placed on the development of the proficiency of client services and career development.

Grade of C or better in COSMET 101,102,103,104, and COSMET 107 (Barber Salon Technology I) or concurrent enrollment in COSMET 107 (Barber Salon Technology I)

15 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 201

Advanced Cosmetology

Students received advance training to increase proficiency in all areas of customer servicing as it relates to cosmetology. Although trainees perform all work under direct supervision of a licensed instructor, they are much less dependent upon instructors in carrying out assignments, Students will refine and further develop specific skills and technique previously learned to enhance hair coloring, make up, acrylic nails, long hair and creative design on live models. Oral presentations as appropriate to the discipline, are part of the course.

Grade of C or better in COSMET 101, 102, 103, 104, 105. Grade of C or better or concurrent enrollment in COSMET 106.

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 202

Cosmetology Summative Seminar

This course provides the opportunity for practical application of all previously acquired cosmetology knowledge and skills. Trainees perform all work under direct supervision of a licensed instructor and are much less dependent upon instructors in carrying out assignments. Considerable emphasis is placed on efficiency and quality of work performed while servicing clients. Finalizing of the portfolio is required for this course. Preparation and review for the Illinois State Cosmetology exam will be provided. Internships as appropriate to the discipline may be part of the course.

Grade of C or better in COSMET 101, 102, 103, 104, 105, 106, 201, or concurrent enrollment in COSMET 106 and COSMET 201.

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 203**Advanced Barbering**

Students receive advanced training to increase proficiency in all areas of customer service as it relates to barbering. Although trainees perform all work under direct supervision of a licensed and experienced instructor, they are much less dependent upon instructors in carrying out assignments. Students will refine and further develop specific skills and techniques previously learned to enhance hair shaping, hair coloring, make-up, long hair, razor shaving and creative graphic design on live models. Oral presentations as appropriate to the discipline, are part of the course.

Grade of C or better in Cosmetology 101, 102, 103, 104, 107 (Barber Salon Technology I), and 108 (Barber Salon Technology II) or concurrent enrollment in Cosmetology 108 (Barber Salon Technology II)

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 204**Barbering Summative Seminar**

This course provides the opportunity for practical application of all previously acquired barbering knowledge and skills. Trainees perform all work under direct supervision of a licensed instructor and are much less dependent upon instructors in carrying out assignments. Considerable emphasis is placed on efficiency and quality of work performed while servicing clients. Finalizing of the portfolio is required for this course. Preparation and review for the Illinois State barbering exam will be provided. Internships as appropriate to the discipline may be part of the course.

Grade of C or better in COSMET 101,102,103,104,107,108,203 or concurrent enrollment in COSMET 108 and COSMET 203.

12 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 211**Post-Graduate Cosmetology Training I**

This course covers subjects in the basic Cosmetology curriculum such as proper techniques in roller setting, haircutting, clipper and razor cutting, skin care, and massage, including theory and practice. Presentation of material includes the concepts that are intended to be taught and the skills to be acquired during the various phases of basic education. Writing assignments, as appropriate to the discipline, are part of the course.

High School Diploma or GED Certificate required. Student must be a graduate of an accredited cosmetology school and possess an active State of IL Cosmetology License.

15 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 212**Post-Graduate Cosmetology Training II**

This course covers subjects in the basic Cosmetology curriculum such as proper techniques in wet hair styling, manicuring, pedicuring, chemical hair treatment, and hair coloring, including theory and practice. Presentation of materials includes the concepts that are intended to be taught and the skills to be acquired during the various phases of basic education. Writing assignments, as appropriate to the discipline, are part of the course.

High School Diploma or GED Certificate required. Student must be a graduate of an accredited cosmetology school and possess an active State of IL Cosmetology License.

15 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 223**Basic Teaching Skills for Career Education Instructors**

Topics in this course cover educational objectives, student characteristics and development, the learning process and evaluation of learning, classroom management and lesson planning, assessment of learner performance, student motivation, and classroom development. Preparation and organization of subject matter of presentations include teaching objectives to be accomplished and correlate theoretical and practical applications. Salon Business basics are included, as well as applicable Illinois statutes and professional regulations. A portfolio and writing assignments, as appropriate to the discipline, are part of the course.

High School Diploma or GED Certificate required. Student must be a graduate of an accredited cosmetology school and possess an active State of IL Cosmetology License. Proof of 2 years of salon experience or Grade of C or better in COSMET 211 and 212.

14 Laboratory hours. 4 Lecture hours. 8 Credit Hours.

Offered At: TR

Cosmetology (COSMET) 224**Principles and Practice in Cosmetology Education**

This course is conducted under the direct supervision of an Illinois licensed Cosmetology Teacher. It prepares the student teacher in presenting theoretical and practical demonstrations to students in the basic cosmetology curriculum. These demonstrations include the use of educational materials used in the classroom; use of technology in the classroom; and teaching techniques and technical skills in hair cutting procedures, using the clipper and the razor, procedures for analyze the skin, care of the skin and using massage and the skin care machine, and the development of hair styling techniques. A portfolio and writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better or concurrent enrollment in COSMET 223.

14 Laboratory hours. 4 Lecture hours. 8 Credit Hours.

Offered At: TR

Criminal Justice (CRM JUS)

Criminal Justice (CRM JUS) 102**Administration of Criminal Justice**

Operation of the agencies of criminal justice: police, prosecution, courts, correctional institutions, probation and parole. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CRJ 901

Criminal Justice (CRM JUS) 104**Street Law**

The course contains information and activities designed to provide students with the ability to analyze, evaluate and understand legal issues related to business transactions, landlord and tenant relations, marriage and divorce, and constitutional issues like procedural and substantive due process. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH

Criminal Justice (CRM JUS) 114

Administration of Juvenile Justice

Studies in the etiology of juvenile delinquency, analysis of the agencies of control of juvenile behavior, and the roles of courts and correctional institutions in the administration of juvenile justice. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CRJ 914

Criminal Justice (CRM JUS) 151

Practice of Probation and Parole

Development, philosophy, organization and administration of probation and parole; survey of principles, investigation, supervision, treatment and utilization of community resources to rehabilitate and reintegrate the offender into society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Criminal Justice (CRM JUS) 155

Introduction To Corrections

This course covers the history and development of corrections at the local, state and federal levels with emphasis on the goals, structure, and operations of correctional institutions. Included are alternatives to incarceration and the future of corrections within the American criminal justice system. This course is equivalent to the Illinois Articulation Initiatives Criminal Justice course numbered CRJ-911. Written assignments, as appropriate to the discipline, the course.

Grade of C or better in CRM JUS 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, WR

IAI: CRJ 911

Criminal Justice (CRM JUS) 170

Scope & Purpose of Private Policing

Study of private policing as an extension of law enforcement in business, industry or mercantile establishments; applications within civil law enforcement; role of the security officer; analysis and development of US public and private policing. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Criminal Justice (CRM JUS) 172

Management & Supervision for Private Policing

Study of police supervisory and management principles; concepts of organization, communication, planning and human relationships. Analysis of problems and responsibilities in private security at middle-management; role of security director from behavioral standpoint. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Criminal Justice (CRM JUS) 173

Issues & Problems of Private Policing

Analysis of current issues and occupational aspects of private policing; implementation of federal, state and local government recommendations applied to private policing. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Criminal Justice (CRM JUS) 174

Law For Private Police

Survey of criminal law and applications for the private police industry; substantial criminal law, rules of evidence, criminal court procedures, court presentation; analysis of current civil court actions relating to private security. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Criminal Justice (CRM JUS) 202

Issues In Criminal Justice

Critical issues related to crime and urban society; analysis and evaluation of documents in the field of Criminal Justice. Consideration of newly proposed reforms and the method of implementing these reforms. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Criminal Justice (CRM JUS) 211

Intro To Investigation

Intensive study and analysis in investigative procedures; strategy and tactics of obtaining and analyzing evidence through testimonial evidence, physical evidence and records; reconstructing the crime; preservation of evidence and case preparation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Criminal Justice (CRM JUS) 215

Terrorism

Detailed study of terrorism, counter terrorism, terrorist personalities, and terrorist groups, including types, tactics, and trends on a worldwide scale as well as domestically. This course also examines the issues of prevention, civil liberties, nation building, and homeland security. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK

Criminal Justice (CRM JUS) 221

Police Organization & Management

Police organization as a means by which police goals are achieved. Variations in organizational patterns resulting from differing and changing objectives of police service. Analysis and evaluation of urban law enforcement problems and procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Criminal Justice (CRM JUS) 222

Professional Responsibility

Examination of professional ethics and legal responsibilities of the criminal justice practitioner. Legal accountability of criminal justice practitioners; principles and techniques of stress management for maintenance of performance and health. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Criminal Justice (CRM JUS) 234**Criminal Law & Procedure**

Analysis of the nature of substantive criminal law, with emphasis on its historical and philosophical development in the United States.

Examination of constitutional rights of the defendant, as these relate to arrest, rules of evidence, and courtroom procedure at pre-trial and trial level. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Criminal Justice (CRM JUS) 250**Introduction To Criminology**

This course covers the basics of criminology, criminological theories, principles and concepts, and the history and development of criminology. Included is the study of society's reaction to crime and criminals as well as those organizations and agencies designed to combat crime. This course is equivalent to the Illinois Articulation Initiatives Criminal Justice course numbered CRJ-912. Written assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CRM JUS 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, WR

IAI: CRJ 912

Criminal Justice (CRM JUS) 256**Constitutional Law**

Study of the Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the United States Constitution, as these govern police and court procedures and the rights of citizens. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Culinary (330CUL)

Culinary (330CUL) 700**College Success Hospitality Perspective**

This course introduces students to the expectations of the college community and to the academic skills that promote success during their college career. Through coursework, students will develop strategies to improve their academic and professional skills. Students will also learn the importance of taking personal responsibility for their academic and career choices. Topics will be approached from a variety of interdisciplinary perspectives that focus on connecting individuals to their local and global communities in the culinary and hospitality industries. Through assignments that integrate community engagement, service learning, and hospitality and/or on-campus service projects, students will make connections between their coursework and their lives. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Culinary (330CUL) 701**Intro To Food Service I**

This class is an introduction to the food service industry (history, organization and future challenges), career opportunities, standards of professionalism, instruction in principles, procedures and use of basic equipment; basic food and kitchen safety, beginning fundamentals and concepts of cooking. An emphasis will be placed on culinary math and measurements as well as culinary terminology. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; Concurrent enrollment in 330CUL 703,705,708.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Culinary (330CUL) 703**Food Sanitation & Safety I**

Safe food handling is expected at all times when working in a commercial kitchen for the safety of the guests. This class will cover topics such as preventing food-borne illness, HACCP procedures, facility sanitation, legal guidelines, kitchen safety, safe food preparation, storing, and reheating guidelines to introduce the student to kitchen safety and sanitation. Writing assignments, as appropriate to the disciplines, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; Concurrent enrollment in 330CUL 701,705,708.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered At: KK

Culinary (330CUL) 705**Chef's Training I-Section A**

This course covers basic knife skills, proper station set-up and sanitation, classical cooking terminology, standard cooking methods, stock preparation, sauce preparation and heat transfer methods of steaming, sweating and roasting. Emphasizes professionalism, team work and career readiness as basic elements for success. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98, Concurrent enrollment in 330CUL 701,703 and 708.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Culinary (330CUL) 706**Introduction to Garde Manger**

Introduction to Garde Manger (the cold kitchen) where the student will produce items such as cold soups, cold sauces, cheese plates, fruit plates, vegetable crudité, salads, sandwiches and condiments. Creative and attractive food presentation will include but will not be limited to color blocking, garnishing, knife cuts and spatial awareness. Includes sanitation as it applied to cold food preparation ready-to-eat foods and the equipment in the Garde Manger kitchen. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or Consent of Department Chairperson.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Culinary (330CUL) 708

Chef's Training I-Section B

This class continues building on Chef Training I – A with a focus on the standard cooking and heat transfer methods of frying, broiling, poaching, and braising. Includes practicing knife skills, proper station set-up, classical cooking terminology and culinary math and measurements. Students will be introduced to basic plate presentations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98; concurrent enrollment in 330CUL 701, 703, and 705.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Culinary (330CUL) 709

Advanced Garde Manger

This course is designed to provide the student with advanced garde manger skills focusing on the creation and production of pates, galantines, roulades, sausage, hors d'oeuvres, and canapes. Canning and preserving are also covered.. Both individual plate and buffet presentations will be included to stress the visual appeal of food. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or Consent of Department Chairperson.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Culinary (330CUL) 710

Plant Based Cooking

Students will be in the kitchen for this lab class creating flavor profiles for complete meals while utilizing health-supportive cooking methods and plant based ingredients. Common ingredients such as grains, beans, tofu, tempeh, seitan, vegetables and fruits will be incorporated into recipes providing for well-rounded meals suitable for following a plant-based diet. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or consent of Department Chairperson.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Culinary (330CUL) 714

Nutrition for Chefs

This course provides the basic principles of nutrition and their relation to food preparation. Nutrition's role in culinary techniques, ingredient selection, flavor development and creation of healthful menu options will be applied in lecture and experiential learning. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701,703,705 and 708 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Culinary (330CUL) 717

Food Costing & Control

This course introduces common financial indicators in the food service industry. It includes topics such as profit and loss statements, food and beverage costs, purchasing and receiving, pricing a menu, measuring labor and managing from an operational and profitable perspective. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Culinary (330CUL) 721

Entree Preparation

Study of principles, methods and techniques involved in the preparation of international cuisines with an emphasis on specialized cooking methods and flavor profiles; practical experience in banquet and buffet production with an emphasis on presentation techniques and design; proper and safe use of tools, materials and quantity foodservice equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701, 703, 705, 708 or Consent of Department Chairperson. Concurrent enrollment in 330CUL 707 and 723.

15 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: KK

Culinary (330CUL) 723

Food Service Management

Instruction in food service management and executive responsibility in all facets of the food service industry. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson. Concurrent enrollment in 330CUL 717 and 721.

3 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: KK

Culinary (330CUL) 728

Restaurant Service

This course is held within a restaurant environment in which students will work for half of the semester in the kitchen and the other half in the dining room to be able to have a well-rounded operational experience. Students will utilize the cooking skills that they have learned in prior lab classes to effectively cook in a restaurant setting with a focus on guest satisfaction, speed and plate consistency. Food safety and sanitation, cooking techniques, plate presentation and professionalism are also included. When working in the dining room, students will rotate through positions typically found in a restaurant while creating a positive dining experience. Professionalism, teamwork, and following set service standards are included. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in (330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708), or Consent of Department Chairperson.

18 Laboratory hours. 1 Lecture hours. 7 Credit Hours.

Offered At: KK

Culinary (330CUL) 730**International Cooking**

This class studies the principles and techniques involved in the preparation of cuisines from around the world with an emphasis on specialized cooking methods and flavor profiles found in the regions and countries being studied. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or consent of Department Chairperson.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Cybersecurity (COMPSFI)

Cybersecurity (COMPSFI) 101**Networking Essentials**

This course is designed to provide essential knowledge in networking that is required for further study in Cybersecurity. It will explore the areas of knowledge necessary to understand general networking essentials and lay the foundation for further study and coursework. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Cybersecurity (COMPSFI) 102**Information Security Essentials**

This course covers essential terminology, concepts, principles, and practices in Information Security and Assurance. The course balances a mix of technical and non-technical components for building, managing, and maintaining secure systems. The course introduces students to risk management, security policies, and prevailing controls and countermeasures used to minimize the risk of security breaches and intrusions. The course also provides an overview of the current trends in Information Security and the challenges faced when attempting to build secure systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade C or better in CIS 116 or COMPSFI 101 or NET TEC 121, or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Cybersecurity (COMPSFI) 202**Cybercrime and Incident Response**

This course covers the history, evolution, and the prevailing types and forms of cybercrime in our interconnected world. Students learn about the weakest links cybercriminals tend to exploit. The course covers the different types of cybercrime activities, intrusions and breaches, as well as, cybercrime terminology. Students learn how programming weakness/flaws or human errors make systems and applications vulnerable to cybercrime. The course introduces digital forensics and the application of forensic techniques to investigate cybercrime and respond to incidents and breaches. Writing assignments, as appropriate to the discipline, are part of the course/.

Grade C or better in COMPSFI 101 or NET TEC 121, or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Cybersecurity (COMPSFI) 203**Financial Cybercrime**

This course is one of the requirements for Computer Security and Forensic Investigation certificate program /plan 297. Explores the various types of economic cybercrime, the far-reaching consequences of such crime, and some recovery and countermeasures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 102 and COMPSFI 202.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Cybersecurity (COMPSFI) 204**Intro to Computer Forensics and Law**

This course is one of the requirements for Computer Security and Forensic Investigation certificate program/plan 297. Designed to provide an introduction to the world of computer forensics and the attendant legal issues concerning privacy and electronic evidence.

Explores computer forensics as the science of collecting, preserving and analyzing data from computers so they can be admissible at a company discipline hearing or in a court of law. Surveys problems of maintaining a secure technological environment, protecting the identity of individuals, as well as protecting confidential information. In addition, it will introduce techniques used in the collection and analysis of evidence. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 102 and COMPSFI 202.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Cybersecurity (COMPSFI) 205**Cyber Forensics**

This course covers digital forensic techniques, procedures, and technology used in responding to cybercrime incidents and breaches. The course demonstrates how to manage digital forensic evidence, how to use accepted computer forensic technology and tools to respond, how to draw sound conclusions based on digital forensic examination and analysis, and how to present collected information and findings to various audiences including management. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 202 -OR- Consent of Department Chairperson.

1 Lecture Hours. 4 Laboratory Hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 206**Internet Vulnerabilities, Criminal Activities & Investigative Procedures**

This course is one of the requirements of the Computer Security and Forensic Investigation program/plan 297. An overview of appropriate, lawful investigative procedures for the collection, documentation, preparation and presentation of evidence from internet cybercrime investigations. The lab course focuses on the areas of search and seizure, the use of some evidence analysis and presentation software and other appropriate software tools. Writing assignments as appropriate to the discipline are part of the course.

Grade of C or better in CIS 158, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: WR

Cybersecurity (COMPSFI) 212

Scripting for Cybersecurity

Scripting languages have become an integral part of modern cybersecurity testing, analysis and verification. The course builds upon the foundational course in programming to develop scripts and programs for the modern security professionals' toolbox to monitor, protect against, contain, respond to and recover from cyberattacks. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 103 and COMPSFI 101 -OR- NET TEC 121 -OR- Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 213

Ethical Hacking

This course introduces a hands-on practical approach to ethical hacking. The course introduces key concepts, principles, and techniques for attacking and compromising a network as to ultimately secure it. The course also emphasizes network attack methodologies with emphasis on the practical use of network attack tools and techniques, appropriate defenses, and countermeasures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 102 -OR- Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 214

Information Security Systems Analysis

This course examines the integral components of effective Cybersecurity practices including Threat Management, Vulnerability Management, Cyber Incident Response, and Security Architecture. The course provides an overview of the challenges faced when attempting to build and maintain secure systems in a networked environment and explores the monitoring of systems for identification and response to intrusions and breaches. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 202 -OR- Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 215

Information Security Domain

This course provides a detailed study of the Body of Knowledge (CBK) for the Information Security domains. The course covers each domain, the areas it encompasses, and how each is integral to the information security process. This course is initial preparation or review for those who may wish to pursue certification as an Information Security Systems professional. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 102 -OR- Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 216

Info Security Program Management

The course explores critical areas of enterprise security and risk management and examines secure solutions for complex enterprise environments. Students apply critical thinking and judgment across a broad spectrum of security areas to propose and implement solutions that meet enterprise requirements. The course covers key security program management practices, such as policies and procedures, which govern how institutions view the importance of securing today's networked environments susceptible to cybercrime. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in COMPSFI 213 -OR- Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, WR

Cybersecurity (COMPSFI) 231

Internetworking Security

This course provides a detailed understanding of prevailing network security principles and practices. It covers strategies, tool and configurations used to secure network devices and network infrastructures. Students develop the skills necessary to secure routers and switches, and learn how to apply security controls and countermeasures to minimize security risks that modern network infrastructures face. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NET TEC 122, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Dance (DANCE)

Dance (DANCE) 110

Ballet I

Introduction to the technique and principles of classical ballet. Emphasizes instruction through the fundamentals of basic barre, center skills, positions, traveling sequences, placement and terminology. The history of ballet and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 113

Jazz I

Introduction to the technique and principles of jazz dance. Emphasizes instruction through a fusion of American jazz techniques and styles. Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of jazz dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 115**Modern I**

Introduction to the technique and principles of modern dance.

Emphasizes instruction through a fusion of American modern techniques and styles. Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of modern dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 117**Hip Hop I**

Introduction to the technique and principles of hip-hop dance.

Emphasizes instruction through a fusion of American hip-hop techniques and styles. Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of hip-hop dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 119**World I**

Introduction to the technique and principles of world dance styles from Latin America, Africa, the Middle East, and Asia. Emphasis instruction through a fusion of world dance techniques and styles. Fundamentals include basic floor skills, concept of weight, traveling sequences, placement, and terminology. The history of world dance and aesthetic standards of dance is explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course, Not more than an accumulated six credit hours will be counted towards graduation.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 3 times

Dance (DANCE) 210**Ballet II**

Further develop the technique and principles of classical ballet.

Emphasizes instruction through the mastery of intermediate barre, center skills, positions, traveling sequences, placement, and terminology. The history of ballet and aesthetic standards of dance are explored through movement, lecture, and concert attendance, Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DANCE 110 or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 213**Jazz II**

Further develop the technique and principles of jazz dance. Emphasizes instruction through a fusion of American jazz techniques and styles.

Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement and terminology are required. The history of jazz dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DANCE 113 or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 215**Modern II**

Further develop the technique and principles of modern dance.

Emphasizes instruction through a fusion of American modern techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of modern dance and aesthetic standards of dance are explored through movement. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DANCE 115 or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 217**Hip Hop II**

Further develop the technique and principles of hip-hop dance.

Emphasizes instruction through a fusion of American hip-hop techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of hip-hop dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DANCE 117 or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Dance (DANCE) 219**World II**

Further develop the techniques and principles of world dance styles from Latin America, Africa, The Middle East, and Asia. Emphasizes instruction through a fusion of world techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of world dance and aesthetic standards of dance is explored through movement, lecture, and concert attendance, Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course. Not more than an accumulated six credit hours will be counted towards graduation.

Grade of C or better in DANCE 119 or consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 3 times

Dental Hygiene (DENTHYG)

Dental Hygiene (DENTHYG) 112**Introduction to Dental Hygiene**

Introduction to the profession of dental hygiene, the dental hygiene process of care and human need theory. Emphasis on the roles of the professional dental hygienist, communication skills, motivational interviewing and cultural competence. Oral presentations and writing assignments as appropriate to the discipline are part of the course.

Admission to the Dental Hygiene Program/Plan 222.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 119

Introduction to Dental Radiography

This course provides an introduction to the fundamental principles of radiology in the study of the orofacial region. Topics covered include: radiation biology, radiation physics, and pre-clinical lab experience in the exposure of and basic interpretation of dental images. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in DENTHYG 131 and DENTHYG 133.

1.5 Laboratory hours. 1 Lecture hours. 1.5 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 121

Dental Hygiene Theory I

Introduction to concepts, and pre-clinical skills used during the assessment and implementation phases of the dental hygiene process of care. Concepts and procedures will be systematically presented during the lecture component of the class and applied in the pre-clinical laboratory setting. Writing assignments, as appropriate to the discipline, are part of the course.

Admissions into the Dental Hygiene Program and Successful completion of DENTHYG 112

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 122

Dental Hygiene Theory II

A lecture course which discusses additional concepts used during the assessment, planning, implementation, evaluation, and documentation phases of dental hygiene process of care. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in DENTHYG 121 and DENTHYG 123

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 123

Pre-Clinical Dental Hygiene

A laboratory companion course to DH 121 designed to apply the theoretical concepts presented in lecture to the pre-clinical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 112 and concurrent enrollment in DENTHYG 121

7 Laboratory hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 124

Clinical Dental Hygiene I

A clinical companion course to DH 122. Emphasis on the assessment, planning implementation, evaluation, and documentation phases of the dental hygiene process of care. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 121 and DENTHYG 123 and concurrent enrollment in DENTHYG 122

9 Clinical hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 125

Diet and Nutrition in Oral Health

An introductory study of general biochemistry, metabolism, and nutrition as it relates to oral health, general health and disease. Particular reference is made to guidelines for integrating diet risk assessment and guidance into clinical practice. Writing assignments, as appropriate to the discipline, are part of the course.

Admissions into the Dental Hygiene Program

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 126

Dental Radiology

This course is a continuation of DH 119 Introduction to Dental Radiology and covers the application of the fundamental principles of dental radiology in the clinical setting. Advanced interpretation of clinical dental images will also be covered. Writing assignments as appropriate to the discipline are a part of the course.

Grade of C or better in DENTHYG 119 and concurrent enrollment in DENTHYG 124.

1.5 Laboratory hours. 1 Lecture hours. 1.5 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 130

Dental Materials

This course introduces students to the properties of dental materials and basic concepts of material science while providing laboratory experience in the manipulation of dental materials commonly used in dental hygiene practice. Lab safety protocol is also discussed. Writing assignments as appropriate to the discipline are a part of the course.

Admissions into the Dental Hygiene Program

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 131

Oral Structures & Function

A study in oral histology, embryology and dental anatomy emphasizing the development, anatomy, function and morphology of adult and deciduous dentition and related structures. Writing assignment, as appropriate to the discipline, are part of the course.

Admission to the Dental Hygiene Program.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 132

General/Oral Pathology and Diagnosis

A survey of general and oral pathology with emphasis on diseases and their manifestations in the oral cavity. Recognition and detection of such deviations from normal are based on the clinical signs and symptoms, and an introduction to the art of differential diagnosis of lesions occurring in and out the oral cavity. Attention is directed to the discussion of pathology, history, radiographic and clinical appearance, prognosis and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 131 and 133.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 133**Head And Neck Anatomy**

Comprehensive overview of the anatomy of the skull, arteries, veins, lymphatics, musculature, fasciae and nervous structures of the head and neck. Topics in embryology and histology will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Admissions into the Dental Hygiene Program

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 135**Medical Emergencies in the Dental Setting**

This course covers common medical emergencies encountered in the dental office and strategies for preventing, recognizing and managing such emergencies. Role playing will be part of the course. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Dental Hygiene Program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 200**Clinical Dental Hygiene II**

A combined lecture and clinical course. Concepts presented in lecture will be applied to the clinical setting. Emphasis is placed on the development of critical thinking and instrumentation skills. Writing assignments, as appropriate to the discipline, are part of the course

Grade of C or better in DENTHYG 122 and DENTHYG 124.

6.5 Clinical hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 202**Critique of Dental Literature**

An Introduction to the fundamental concepts and skills needed to analyze, interpret and critique professional literature. Emphasis is placed on deriving conclusions that support best practices through evidenced based research. Writing assignments, as appropriate to the discipline, are part of the course.

Advanced standing in the Dental Hygiene program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 233**Expanded Functions**

The study of local anesthesia in dental procedures including the pharmacology, anatomy, physiology, patient management and emergency procedures associated with local anesthetic administration. Conscious sedation agents commonly used in the dental setting will also be discussed. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in DENTHYG 131 and DENTHYG 133.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 235**Community Dental Health I**

An introduction to the current principles and issues in community health and their relationship to the delivery of dental care to the public sector; assessing, planning, implementing and evaluating a community dental health program; utilization of dental care services, dental care financing and oral health promotion will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Advanced standing in the Dental Hygiene program.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 241**Dental Pharmacology**

This course introduces a study of principles of pharmacology, characteristics of the major drug groups, and their utilization in medicine and dentistry. Emphasis is placed on drugs which have an impact on dental practice and drugs which are utilized in dental practice. Writing assignment, as appropriate to the discipline are part of the course.

Advanced standing in the Dental Hygiene program.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 243**Periodontics**

A lecture course which includes the etiology, classification, symptomatology, diagnosis, treatment, and prognosis of periodontal disease. Emphasis will be placed on the phases of periodontics pertinent to a dental hygienist. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 121.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 244**Periodontics for Dental Hygienist**

A lecture course which includes the etiology, classification symptomatology, diagnosis, treatment and prognosis of periodontal disease. Emphasis will be placed upon the phases of periodontics pertinent to a dental hygienist. Writing assignments, as appropriate to the discipline, are part of the course.

Advanced standing in the Dental Hygiene program.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 250**Oral Diagnosis**

An overview course given as an introduction to the art of differential diagnosis as it relates to lesions occurring in and about the oral cavity. Attention is directed to the discussion of pathology, history, radiographic and clinical appearance, prognosis and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Dental Hygiene program/plan 222 and Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 251**Clinical Dental Hygiene III**

A combined lecture and clinical course. Emphasis is placed on the dental hygiene process of care for patients with special needs, and implementation of advanced clinical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 200.

12.5 Clinical hours. 2 Lecture hours. 6 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 252**Clinical Dental Hygiene IV**

A combined lecture and clinical course. Emphasis is placed on preparing students for their clinical licensing examination and private practice. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Grade of C or better in DENTHYG 251.

12.5 Clinical hours. 1 Lecture hours. 5 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 254

Dental Specialties

This course is designed to acquaint the dental hygiene student with the various dental specialties and current trends in dental treatment. Guest lecturers, who are specialists in the field, will provide pertinent information and in some cases, supervise practical experiences during clinical rotation. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Dental Hygiene program/plan 222, and Consent of Department Chairperson.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 256

Community Dental Health II

A continuation of Dental Hygiene 235 with emphasis on biostatistics and the epidemiology of dental disease. Public health careers and the role of the dental hygienist in community health will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DENTHYG 235.

2 Laboratory hours. 1 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 258

Ethics And Jurisprudence

Introduction to ethical and regulatory principles and Illinois law as it pertains to dental hygiene practice. Emphasis is placed on problem solving through the ethical decision making process. Reinforcement of professional behaviors with patients, colleagues, and the community. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Dental Hygiene Program/Plan 222 and Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Dental Hygiene (DENTHYG) 260

Senior Seminar

The course is a review of all material found on the national, regional and state dental hygiene board examinations. The course is designed to prepare students for the Dental Hygiene Board examinations, and also includes employment/professional preparation. Writing assignments, as appropriate to the discipline, are part of the course.

Advanced standing in the Dental Hygiene program.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Digital Multimedia (DMD)

Digital Multimedia (DMD) 105

2D Animation

This is a studio course that investigates the principles, practices, and philosophy of both traditional and 2D digital animation. Students will develop storyboards, drawings, flip books, and short computer animations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade C or better in ENGLISH 101, ART 131 recommended or taken concurrently, or consent of department chair.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: MC 924

Digital Multimedia (DMD) 115

Digital Audio

This is a studio course in which the primary orientation is the development of the student's portfolio. The course will investigate and develop soundtracks for video, film and multimedia. Students will develop soundtracks using digitized sounds, traditional foley effects, general midi music and dubbed effects, with the primary emphasis on the creation of a video and multimedia soundtrack. The use of professional sound and editing techniques will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Digital Multimedia (DMD) 121

3D Modeling

This is a studio course whose primary orientation is the development of the student's portfolio. The course will introduce students to 3D graphics, principles of perspective and basic principles of 3D modeling. The theory of 3D on the computer will be explored. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101 and DMD 168-1, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 130

Principles of Design and Development for Digital Media

Introduction to fundamental design and development principles within the context of digital media production. The course covers principles of design, color theory, typography, information architecture, and layout as it applies to digital media. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, CIS 120 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 131

Web Multimedia Design & Dev

This course is an introduction to multimedia authoring using industry standards web authoring software applications. Students will use industry standards vectors and WYSIWIG development software to design and develop web and desktop applications. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, DMD 130, and DMD 168, or Consent of Department Chairperson.

6 Laboratory Hours. 3 Credit Hours.

Offered At: HW

IAI: MC 923

Digital Multimedia (DMD) 168

Computer Art I

Students will be introduced to the concepts of computer art using representative programs and concepts from the profession. Students will be introduced to both raster paint/photo retouching programs and professional quality vector drawing programs. Students will also be introduced to the history of computer art. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101; or consent of department chairperson.

6 Laboratory Hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 179**Digital Video I**

Students will learn digital camcorder operation, basic shooting and lighting techniques, basic editing, storyboard creation and video production planning. The history, theory and criticism of video will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, CIS 120 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 205**Advanced Animation**

This studio course is a continuation of the exploration and development of 2D animation. Students will develop observational and storytelling skills, utilizing and experimental animation techniques, including stop motion, live-action compositing, cutouts, time-lapse, and drawn animation. Students will explore the use of animation as a creative tool, art form, and distinct personal language through character development, timing, movement study, camera movement, observation and soundtrack implementation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, working knowledge of Macintosh platform, DMD 105 required, or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 221**3D Animation**

This is a studio course whose primary orientation is the development of the student's portfolio. The course will develop the students understanding of 3D graphics, 3D dimensional modeling with an emphasis on movement, using systems and inverse kinematics and the use of constraints and bones. Advanced modeling will be used such as skins and mesh deformation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DMD 121 and DMD 168, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 231**Intermediate Multimedia Design & Development**

This course builds upon the technical and design skills learned in DMD 130 and 131. Focus in on design skills, intermediate programming skills, basic concepts of object oriented scripting, open source libraries, and designing for mobile devices. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DMD 131 or Consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 233**Advanced Multimedia Design & Development**

This course builds upon the technical and design skills learned in DMD 231. Focus is placed on advanced scripting and programming skills along with team-based projects. Students will develop an understanding of team roles, time management, and legal and technical considerations for completing a project. Students work in teams to design and complete a client-based web site. This will provide an opportunity to plan, design, develop, and implement solutions for web/multimedia projects requiring students to analyze, integrate, and synthesize knowledge acquired from previous course work. Writing assignments, appropriate to the discipline, are part of the course.

Grade of C or better in DMD 231, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 268**Advanced Computer Art**

This studio course develops an understanding of and skills in computer art at an advanced level. This course builds upon the basic skills developed in DMD 168 and explores more advanced features in both bitmap and vector painting and drawing programs. Students will learn to utilize filters, layers, channels, gradient mesh, advanced type techniques, color correction, and surface and texture creation. This course will also explore preparing images for the web and using vector and bitmap programs in tandem. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DMD 168, or Consent of Department Chairperson.

2 Lecture Hours. 2 Laboratory Hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 279**Digital Video II**

Builds upon the foundation of Digital Video I course. Students will learn advanced camera, editing, lighting, special effects, and audio techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DMD 115 or DMD 179, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Digital Multimedia (DMD) 299**Portfolio & Professional Practice Seminar**

Students develop an online portfolio using technical and design skills learned in prior multimedia classes. Professional issues related to the business of interactive design will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in DMD 130, DMD 131, DMD 231, and DMD 233, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW

Economics (ECON)

Economics (ECON) 133

Consumer Economics

Principles of intelligent buying, investments, shelter, insurance, and basic commodities; development of consumer cooperative movement, advertising, fraud, monopoly, and competition, and role of government in promoting consumer welfare. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

GE: Social & Behavioral Sciences

Economics (ECON) 201

Principles Of Economics I

Covers macro or income analysis; includes money, income determination, public finance, and economic development. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S3 901 **GE:** Social & Behavioral Sciences

Economics (ECON) 202

Principles Of Economics II

Covers micro or price analysis; includes the markets, production function, income distribution, and international trade. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S3 902 **GE:** Social & Behavioral Sciences

Economics (ECON) 204

Money And Banking

Economic history and operation of US monetary and banking systems; business cycles, international exchange, Federal Reserve System, and use of national fiscal policies as instruments of economic control. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ECON 201 and ECON 202, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences

Education (EDUC)

Education (EDUC) 101

Introduction To Education

This course will provide an introduction to teaching as a profession in the American education system. The course offers a variety of perspectives on education including historical, philosophical, social, legal, and ethical issues in a diverse society. It includes organizational structure and school governance. A field experience is required. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR, WR

Education (EDUC) 102

Using Technology in The Class

Prepare pre-service and in-service teachers to integrate technology, including computer and multimedia software, into pre-K through 12th grade classes. Surveys concepts of technology use, provides hands-on experience with hardware and software, and addresses human, social, and ethical issues related to the use of technology in education. Meets national and state technology standards. Writing assignments as appropriate to the discipline are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR

Education (EDUC) 103

Students With Disabilities in School

A survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, the Individual with Disabilities Act (IDEA) and the services that are provided under this act, and the diversity of exceptional populations with implications for service delivery. Writing assignments as appropriate to the discipline are part of the course.

Grade of C or better in EDUC 101 -OR- PSYCH 207 -OR- Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

Education (EDUC) 120

Survey of Characteristics

This is an introduction to special education, including the historical foundations of special education, information regarding characteristics of individuals with exceptionalities, evidence based instructional strategies as well as legal policies in meeting the needs of diverse learners. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Approval for PK - 21 Special Education. Writing assignments and classroom observations as appropriate to the discipline, are part of the course.

Enrollment in Program/Plan 0443-Learning Behavior Specialist I -BC

4 Lecture hours. 4 Credit Hours.

Offered At: TR

Education (EDUC) 121**Principles and Practice**

This course centers around explicit instruction with culturally responsive teaching and co-teaching with a special focus on equity. Methods and strategies related to students with disabilities and how accessing the general education curriculum via inclusion are examined. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Approval for PK - 21 Special Education. Writing assignments and classroom observations as appropriate to the discipline, are part of the course.

Enrollment in Program/Plan 0443-Learning Behavior Specialist I -BC

4 Lecture hours. 4 Credit Hours.

Offered At: TR

Education (EDUC) 122**Psychological Diagnosis**

The purpose of this course is to provide prospective special education teachers with a foundation in effective assessments for students in special education. Specifically, content will cover the legal foundations of Special Education (SPED) assessment as well as understanding, administering and interpreting assessments as related to the determination of the eligibility for and type of special education and related & supportive services. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Approval for PK - 21 Special Education. Writing assignments and classroom observations as appropriate to the discipline, are part of the course.

Enrollment in Program/Plan 0443-Learning Behavior Specialist I -BC Grade of C or better in EDUC 120 and 121.

4 Lecture hours. 4 Credit Hours.

Offered At: TR

Education (EDUC) 170**Observation, Documentation, & Assessment in ECSE**

This course provides an overview of observation, documentation, and assessment for children birth to age eight with or at risk for having special needs. Students will be introduced to developmentally appropriate techniques for observing, documenting, and assessing the development of children with or at risk for special needs in order to inform curriculum planning and promote positive guidance strategies. Students will become familiar with informal and formal methods and tools for observation, documentation, and assessment and their appropriate use across developmental domains, environmental contexts, disability diagnosis, and ages. Students will identify methods for individual, environmental, and program assessment in special education contexts. The course emphasizes a strengths-based approach to assessment that includes building partnerships with families and professional colleagues and cultural responsiveness. Self-reflection is a major component of the course as well as the examination of bias in the observation and assessment of young children from diverse backgrounds. Fifteen hours observing young children in an early childhood education setting are required for the course. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Approval for Early Childhood Special Education. Writing assignments, as appropriate to the discipline, are required.

Enrollment in the Early Childhood Special Education Basic Certificate Program.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 171**Language and Literacy in ECSE**

This course will cover language and literacy development in children age birth to eight years old who are at risk for or have special needs with a specific focus on early childhood special education settings. The course will include an overview of typical language development birth to age eight. Students will be introduced to atypical language development and specific disabilities that affect language and literacy. The course will outline the relationship between communication and language differences and learning and development across domains and contexts. Students will explore methods for supporting development, learning, and literacy for children at risk for or with special needs including assistive technologies and alternative and augmentative communication methods. The course emphasizes a strengths-based approach that includes building partnerships with families and professional colleagues and cultural responsiveness. Self-reflection is a major component of the course as well as the examination of bias in the observation and assessment of young children from diverse backgrounds. Five observation hours are required as part of the course. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Approval for Early Childhood Special Education. Writing assignments, as appropriate to the discipline, are required.

Enrollment in the Early Childhood Special Education Basic Certificate Program.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 172**Principles and Practices of ECSE**

The purpose of this course is to examine how teachers can implement developmentally appropriate methods in a curriculum while promoting the development of social/emotional, cognitive, communication, adaptive, motor and other learning skills of young children with special needs in various settings to ensure all students can be full participants in their classrooms and in the local school community. Through discussion and hands-on learning activities, teachers will learn to design and adapt learning environments to support development and adapt curricular activities and materials in ways that will allow active and full participation of all children.

Enrollment in the Early Childhood Special Education Basic Certificate Program.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 203**Educational Psychology**

Assessment of aptitudes, capacities, interests, and achievements; and the educational implications of physical, emotional and social development. Hours of observing in an educational setting are required for this course to ensure various aspects of teaching strategies in a classroom can be observed by the students. Writing assignments as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Education (EDUC) 220

Theoretical Foundations of 2nd Language Acquisition and Learning

This course is an introduction to the theoretical frameworks and educational research of English as a Second Language (ESL) and Bilingual Education (BE). It prepares students to analyze and evaluate the effectiveness of various ESL/BE program models across different contexts. Students will investigate the relationship between theory and practice and understand their role as advocates for English language learners. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101 with a grade of C or better

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 221

Methods and Materials for Teaching ESL in PK-12

This course explores methods and materials for teaching English language learners in ESL, bilingual, and mainstream PK-12 classrooms. With an emphasis on integration, students will learn to plan and implement English literacy and academic content area instruction. Students learn to recognize and practice strategies to differentiate standards-based instruction according to language proficiency. A variety of teaching resources and technologies are introduced, analyzed, and matched to diverse English language learners' needs. Meaningful connections with families and communities are discussed in relation to building culturally-responsive practices to support English language learners' achievement. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education.

Completion of or concurrent enrollment in EDUC 220

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 222

Methods & Materials for Teaching ESL in PK-12 Bilingual

This course prepares bilingual students to work with second language learners in PK-12 bilingual programs. It will examine research-based models of bilingual education and prepare students to successfully assess benefits and limitations of particular program designs for various schools or districts. Using both primary and target languages, students will learn how to assess content instruction, teach literacy, select instructional materials, and use a variety of assessment tools. Relevant local, state, and national standards and policies are introduced in relations to teaching and learning in bilingual programs. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of or concurrent enrollment in EDUC 220

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 223

Assessment of the Second Language Learner

This course examines the various assessment issues affecting English language learners in a variety of educational settings. It introduces concepts, procedures, and tools that are associated with current practices used in the identification and placement of bilingual and ESL learners. Students identify and differentiate between language needs and developmental needs. Students learn to recognize the impact of context on second language learners' performance and assess their content instruction in both primary and target languages in order to accurately plan and inform their future instruction. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of or concurrent enrollment in EDUC 220

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 224

Cross Cultural Studies for Teaching Limited English Proficient Students

This course focuses on the relationship between language and culture as it relates to the needs and challenges of English language learners in ESL, bilingual, and mainstream PK-12 classrooms. It prepares students to examine cultural, political and social factors of English language learner's identity and its impact on the process of teaching and learning. Students will investigate how learning and communication styles affect teacher expectations on student achievement. Students will learn to utilize practical resources that support positive relationships between school, family and the community to provide culturally responsive instruction. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101 with a grade of C or better

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 225

Bilingual and ESL Practicum

This course serves as the student's culminating experience for the Bilingual/English Second Language Program (ESL). Students will demonstrate competency in effectively teaching Bilingual/English language learners in the classroom. Students will participate in supervised authentic teaching and learning environments. The course requires both formal and informal observations, demonstration of support for students as well as effective instructional strategies, learning activities and assessment techniques. Students will reflect on their experience. Students are evaluated during the practicum experience. The course requires 100 hours of clinical experience. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of EDUC 220, EDUC 221, EDUC 223, EDUC 224 with a grade of C or better

1 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 226**Foundations of Educational Technology**

This course explores technology and its use in society and schools as we move through the 21st-century. This course provides an overview of technologies used in the teaching and learning process. It serves as an introduction to current trends in educational technology and the knowledge needed by educators to successfully integrate it into their learning space. Students will investigate educational resources and current trends in educational technology. Emphasis will be given to building a strong professional learning network that will be expressed through a blog and professional online portfolio. Various technology tools will be applied, building a foundation to explore the knowledge needed to acquire the Technology Specialist certification in Illinois. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 227**Digital Tools for Teaching, Learning & Assessment**

This course explores the use of digital tools for teaching, learning, and assessment in educational settings. Student learning styles are being taken into account more than ever in education, in part due to the offerings technology brings to the classroom. Educators will learn how to plan, select, develop, and evaluate how to effectively use appropriate instructional technologies and digital tools to enhance teaching and learning. The 21st-century skill framework of the 4Cs: critical thinking, communication, collaboration, and creativity and use in the classroom will be investigated in depth. The concept of digital tools for formative and summative assessments will be explored. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 228**Designing Active Learning Environments**

Course Catalog Description: In this course, students will develop an understanding of theories of learning and how these theories relate to educational technology. Students will explore how to design, develop and deliver active learning lessons using digital tools for all learners. The topics of blended and personalized learning will be addressed, looking at current trends and best practices to meet the needs of every learner. Emphasis is given to design a unit of instruction with learning experience based on the Understanding by Design model. This course will provide guidance on how to help students become active participants in goal setting, management of learning and reflection through digital tools. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226 and CIS 250

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 229**Digital Media Literacy in Classrooms**

This course introduces how media surrounds us at all turns, influencing our thoughts and actions. With today's influx of information, it is critical that our students know how to master the media. This course gives an introduction to the function and issues related to media in society. Students will explore different types of media to develop an understanding of the role it plays in our lives and how it influences our teaching and learning. This includes digital and visual literacies. The course is designed to give educators the knowledge and strategies needed to help students become media literate and to build critical thinking skills that are transferable across subject areas. The course will help educators examine, interpret and evaluate messages while discussing the impact these messages have on today's students. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 230**Internet Technology Fundamentals with Hardware, Software & Operating Systems**

This course introduces educators to the fundamentals of computers including terminology, hardware, software, and operating systems. Students will learn about selecting, managing and maintaining educational technology for schools. The fundamentals of the Internet, including its origins, evolution, and design will be discussed. Students will gain a basic understanding of web content languages, website management, and design/usability principles including accessibility. Critical Internet issues such as security, privacy, and copyright, will be explored within the context of educational technology and schools. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 231**Social Media in the K-12 Classroom**

This course explores the latest social media applications and the role they play in educational settings. Social media has the ability to increase our knowledge and reach outside of the classroom walls. Both educators and students can benefit from the perspectives of many, not just those in front of us. Students will experience an immersive learning environment via popular social media platforms online and learn practical ways to tell their story while building their professional network. Global connections, security, ethics and privacy issues will also be explored. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226 and EDUC 229

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 232

Visionary Leadership in Educational Technology

This course focuses on technology planning in educational settings. More often than not school leaders are grown from within their organizations. Educators need to understand decision making from a leadership perspective. Students will develop a technology plan for their school or district, conducting all aspects of the planning process including interviews, needs assessments, professional development, and budgeting. To complete this, students will engage with various stakeholders gaining multiple perspectives involved with leadership. Initiatives such as Future Ready and how leaders learn will be explored. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Technology Specialist. Writing assignments, as appropriate to the discipline, are required.

Grade of C or better in EDUC 226
3 Lecture hours. 3 Credit Hours.

Offered At: TR

Education (EDUC) 260

Principles of Practice in Elementary Education

Organizational procedures, curriculum, principles of classroom management, and the role of the teacher in stimulating learning. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Education (EDUC) 269

Practice in Elementary Education-8 Wks.

Students spend 20 hours per week, under supervision, as a teacher aide in primary grade classroom, 8 or 16 weeks; course includes 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 102 and 107 and EDUC 256 and Consent of Department Chairperson.

2 Lecture Hours. 20 Laboratory Hours. 3-6 Credit Hours.

Offered At: KK, OH

Education (EDUC) 277

Philosophy

Comparative study of philosophical views on the relationship of education to political institutions, social processes, material conditions and individual ideas. Designed primarily for future teachers; open to all students. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Education (EDUC) 299

Special Topics Education

Special Topics in Education will be discussed. New developments in research and practice including the use of technology in the classroom will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Observation hours made in an educational setting may be required for this course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

1-4 Lecture Hours. 1-4 Credit Hours.

Offered At: KK, TR

Repeatable: Yes, up to 4 times

Electronics (ELECTRN)

Electronics (ELECTRN) 116

Basic Electronics Dc/Ac

Beginning course covering fundamentals in advanced electronics; basic laws of alternating and direct current circuit theory and operation of electronics devices and circuitry; including operation of modern electronic test equipment in practical laboratory application. This course covers essentially the same material as covered in Electronics 101 and Electronics 102 but in an accelerated, one semester approach. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: TR

Emergency Medical Technician (EMT)

Emergency Medical Technician (EMT) 100

Emergency Medical Technician - First Responder Training

This course developed by the United States National Highway and Traffic Administration (NHTSA), provides training in basic emergency care treatment for the first person at an emergency scene. The First Responder/Emergency Medical Responder is able to function within the Emergency Medical Service (EMS) system and is a vital link in the chain of the health care team helping to deliver out hospital emergency medical care. This curriculum emphasizes skills necessary for an individual to provide emergency medical care with a limited amount of equipment. Students will develop basic skills in patient assessment and emergency medical care procedures.

Placement examination or successful completion of English 96

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 101

Emergency Medical Technician-Basic

This course is developed in accordance with the United States National EMS Education Standards and the NHTSA National EMS Scope of Practice Model for EMT instruction. It focuses on developing the knowledge, skills and abilities that will allow each student to recognize the nature or extent of a patient's condition and to administer appropriate emergency medical care to stabilize the patient's condition, lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury and transport them safely to the proper medical facility. It is designed for individuals seeking to further their career in emergency medicine. Students frequently continue their education and go on to become paramedics, nurses and physicians. After successful completion, students may sit for the EMT Licensing Examination. Writing assignments, as appropriate to the discipline, are a part of the course.
Eligibility for ENGLISH 101 or successful completion of EMT 100 with a C or better.

4 Laboratory hours. 6 Lecture hours. 8 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 221**Essentials of Paramedic Medicine I**

This course introduces the student to the roles of the paramedic. The content focuses on the introduction, assessment, management and stabilization of various patient conditions. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the EMT-P Paramedic Program and concurrent enrollment in EMS 222.

9 Lecture hours. 9 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 222**Paramedic Medicine Practicum I**

This course provides the student the opportunity to focus on the integration of the principles learned in EMT 221 and apply this knowledge into practical application. Includes: direct patient care; patient simulation, clinical rotations and ambulance ride time with the Chicago Fire Department. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in EMT 221

4.5 Clinical hours. 6 Laboratory hours. 2 Lecture hours. 5.5 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 223**Essentials of Paramedic Medicine II**

This course provides continued instruction which was introduced in EMT 221. The content focuses on the assessment, management and stabilization of various patient conditions. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of EMT 221 and EMT 222. Concurrent enrollment in EMT 224

9 Lecture hours. 9 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 224**Paramedic Medicine Practicum II**

This course provides the student the opportunity to focus on the integration of the principles learned in EMT 221, 222 and apply this knowledge in practical application. This course includes direct patient care; patient simulation, clinical rotations and ambulance ride time. This course follows the United States Department of Transportation guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of EMT 221 and EMT 222. Concurrent enrollment in EMT 223

9 Clinical hours. 6 Laboratory hours. 2 Lecture hours. 7 Credit Hours.

Offered At: MX

Emergency Medical Technician (EMT) 227**Paramedic Medicine Field Internship**

EMS 227 is the capstone course in the EMT-P program offering supervised ride time with an approved preceptor on an ALS Chicago Fire Department Ambulance. This class provides the opportunity for each student to integrate knowledge, clinical practice, critical thinking/judgment and the ability to serve as a team leader in a variety of pre-hospital emergency situations throughout the city of Chicago. In conjunction with this direct patient care opportunity, students will participate in weekly seminars, which is a group learning opportunity designed to integrate their pre-hospital field learning experiences with critical medical content previously mastered in EMT-P 221, 222, 223 and 224. Written assignments (including Run Reviews and Patient Care Reports), as well as documentation of practiced clinical skills in the pre-hospital environment are required.

Successful completion of the core curriculum (EMT 221, 222, 223 and 224).

Re-entry students are considered on an individual basis consistent with the Region XI re-entry policy.

3 Lecture Hours. 6 Laboratory Hours. 6 Credit Hours.

Offered At: MX

Engineering (ENGR)

Engineering (ENGR) 100**Elements of Engineering Drawing**

Drawing survey course for students in technical and engineering science major programs. Study of more advanced software "AutoCAD Mechanical Program"; also draw geometric figures, multi-view drawings, pictorial drawing, charts and graphs with emphasis on graphic elements of machine parts drawing. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Engineering (ENGR) 110**Introductory Drafting**

For students in non-technical and non-engineering science major programs. Learn to use "AutoCAD general program" to draw geometric figures, multi-view drafting, pictorial drawing, charts and graphs. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: TR

Engineering (ENGR) 111**Engineering Success Seminar**

A course that surveys engineering and engineering computer science professions, their relationships to other professions, the roles and responsibilities of practitioners, and issues of professional ethics. This course introduces students to various specializations, and the expectations of college, and it provides support in the development of personal and professional skills that promote success in college and careers. Students will also learn the importance of taking personal responsibility for their academic and professional choices. Writing assignments, as appropriate to the discipline.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, TR, WR

Engineering (ENGR) 115

Engineering Communications-Blueprint Reading

For students in technical and non-technical curricula; principles and practices involved in interpretations of engineering graphics communications; emphasis on machine and structural graphic communications. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Engineering (ENGR) 131

Engineering Graphics & Intro to Design

Graphics, both manual and computer-aided drafting and design. Introduction to design techniques in graphics and multi-view drawing, auxiliary views, selecting, tolerance dimensioning, and technical sketching. Writing assignments, as appropriate to the discipline, are part of the course.

ENGR 111 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, TR

Engineering (ENGR) 132

Descriptive Geometry

Theory of projections. Solution by graphical methods of problems concerning the relation of points, lines, planes, and surfaces. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 131, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Engineering (ENGR) 190

Computer Programming for Engineers

Introduces the use of high-level programming language in algorithm development and as a problem-solving tool in engineering; including basic data structures and algorithms, structured programming techniques, and software documentation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 208.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, TR, WR

Engineering (ENGR) 202

Advanced Drafting & Basic Machine Design

Application of fundamental stress analysis to design of complete machine units involving machine elements such as shafts, springs, gears and screws, mechanical properties of materials and their significance in design; and classification of fits, specification of materials in use, and the manufacturing processes. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 131, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: TR

Engineering (ENGR) 206

Elements of Mechanics-Statics

Rigid bodies, fluid statics, friction, moments of inertia, centroids, and virtual work. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 235 and MATH 208 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Engineering (ENGR) 208

Strength of Materials for Architecture

Concepts of stress and strain relationships; analysis of elementary stress distributions and deformations; study of axial loading, shear and bending moment diagram, and bending theory application. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 206.

3 Lecture Hours. 3 Laboratory Hours. 3-4 Credit Hours.

Offered At: KK

Engineering (ENGR) 215

Electrical Circuit Analysis

Basic electrical circuits, nodal and mesh analysis, voltage and current laws, circuit analysis techniques and superposition, operational amplifiers, RL, RC, and RLC circuits, frequency response, resonance, AC power analysis, Laplace transform methods, and BJT logic applications. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in PHYSICS 236, MATH 209 and credit or concurrent enrollment in MATH 210

3 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: EGR 931L

Engineering (ENGR) 225

Introduction to Thermodynamics

Principle of energy transport and work; properties of substances and equation of state; first and second laws of thermodynamics, entropy, and equilibrium with applications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 235 (Engineering Physics I) and MATH 208 (Calculus and Analytical Geometry II), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX, OH, WR

Engineering (ENGR) 250

Engineering Projects

Projects of experimental and analytical nature to stimulate creativity; recommended scheduling and integrating subject material with selected engineering courses. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGR 202, or Consent of Department Chairperson.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered At: DA, KK

English (ENGLISH)

English (ENGLISH) 96

Aligned Reading and Composition

ARC is an integrated reading and writing course designed to increase students' critical thinking, reading, and writing abilities and to promote their academic literacy for long-term success. To meet these ends, this course provides a structured, rigorous learning environment that nurtures student engagement through a shared, sustained classroom experience, and it fosters collaboration in a curriculum that respects students' individuality and humanity and that prepares them to meet college-level expectations. It also encourages students to invest in a network of support services and resources to enhance long-term academic and professional success. There will be extensive reading and analysis of college-level texts, frequent essay-writing, relevant discussion, and collaborative work. The course immediately precedes the General Education Communication sequence of English 101 and 102. Writing assignments, as appropriate to the discipline, are part of the course. *Placement into ARC as determined by the CCC Placement Test, the RTW (Read to Write), successful completion of the course immediately preceding ARC in the course sequence based on departmental, faculty-approved assessment, or Consent of Department.*

6 Lecture hours. 6 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

English (ENGLISH) 97

Written Communication Skills

This course provides additional support to English 101 students who elect it or, based upon the final assessment in English 096 (or an equivalent course), exhibit that they need it. The course emphasizes critical thinking, reading, and writing appropriate to academic literacy. Writing assignments, as appropriate to the discipline, are part of the course.

CCCRTW score of 4+, a grade of C or better in ENGLISH 96/INTCOMM 100/ BOTH ENGLISH 100 and READING 125, or consent of department. All students enrolled in a section of ENGLISH 97 MUST also register for the corresponding section of ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

English (ENGLISH) 98

Composition

Elements of reading, writing and speaking basic English. Writing assignments, as appropriate to the discipline, the course.

Eligibility for ENGLISH 98 by placement test scores or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

English (ENGLISH) 99

English ARC: Accelerated Reading and Composition

ARC is an integrated reading and writing course designed to increase students' critical thinking, reading, and writing abilities and to promote their academic literacy for long-term success. To meet these ends, this course provides a structured, rigorous learning environment that nurtures student engagement through a shared, sustained classroom experience, and it fosters collaboration in a curriculum that respects students' individuality and humanity and that prepares them to meet college-level expectations. It also encourages students to invest in a network of support services and resources to enhance long-term academic and professional success. There will be extensive reading and analysis of college-level texts, frequent essay writing, relevant discussions, and collaborative work. This course has strict requirements and high expectations and may only be repeated once. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 98 and READING 99, CCCRTW 2+, or COMPASS e-Write (5-6) and Reading (50 or >), or CCC Writing score of 3+ and Reading (50 or >), or Consent of Dept Chair.

6 Lecture hours. 6 Credit Hours.

Offered At: WR

Repeatable: Yes, up to 3 times

English (ENGLISH) 100

Basic Writing Skills

Emphasis on individual expression in paragraph form, sentence clarity through knowledge of sentence structure, and correct word forms. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 100, or Grade of C or better in ENGLISH 98, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

English (ENGLISH) 101

Composition

Development of critical and analytical skills in writing and reading of expository prose. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or RTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: C1 900 GE: Communications

English (ENGLISH) 102

Composition

Continuation of English 101. Introduces methods of research and writing of investigative papers. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: C1 901R GE: Communications

English (ENGLISH) 105

Business Writing

Fundamentals of basic forms of business correspondence. Writing assignments, as appropriate to the discipline, the course.

Grade of C or better in ENGLISH 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR, WR

English (ENGLISH) 107

Report Writing

Letters and reports, methods of collecting and organizing data, and methods of presenting facts and ideas effectively. Writing assignments, as appropriate to the discipline, are part of the course.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: DA, HW, KK, MX, WR

English (ENGLISH) 111

Introduction to Technical Communication

Introduction to patterns of writing used in reports and letters for business, industry and technology. The course introduces many different approaches to solving specific communication problems and emphasizes critical thinking skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101 or consent of department chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

English (ENGLISH) 150

College Newspaper

News reporting and writing, feature writing, makeup and editorial work; discussion of problems of policy and newspaper. Lab work correlated with publication of college newspapers. Students will carry out all the tasks involved in the writing, publication and distribution of the college newspaper. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four hours will be counted toward graduation.

1 Lecture hours. 1 Credit Hours.

Offered At: HW, KK, TR, WR

Repeatable: Yes, up to 4 times

English (ENGLISH) 151

News Reporting And Writing

Survey of journalism, including news reporting and writing, feature writing, makeup and editorial work, business and advertising problems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR, WR

IAI: MC 919

English (ENGLISH) 152

Intro To Mass Communication

Scope of modern journalism and dominant theories of communication; influences of the media in today's society. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR

IAI: MC 911

English (ENGLISH) 197

Communications Skills

This course provides additional support to English 101 students emphasizing critical reading, academic writing, and standard English grammar. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR

English (ENGLISH) 201

Advanced Composition

Intensified work in expository and argumentative writing for students who need to improve writing skills for professional careers. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 102.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, MX, TR

English (ENGLISH) 207

Writing the Screenplay

This class covers the principles of writing for film. The journey from idea conception to script completion will be covered in detail throughout the course. Peer workshops, where scripts written by students are evaluated, will be an important feature of the class. An examination and discussion about screenplays from the canon of American film will also be discussed as a way to demonstrate competence in screenwriting. The students' final work will involve successful completion of a short film or the first act of a feature film. Writing assignments as appropriate to the discipline are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, WR

English (ENGLISH) 241

Creative Writing

Descriptive and narrative writing, concentrating on the writing of poetry, drama, and fiction. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

English (ENGLISH) 243

Creative Writing--Fiction

Students will understand the structure and elements of fiction and the writing process, produce fully-developed works of fiction, and demonstrate an understanding of the critical terminology of the creative writer. Student will experiment with different approaches to plot, point-of-view, dialogue, voice, sequence and structure. A minimum of 25-30 finished pages of original work is recommended. Journals, a midterm, and a final exam may also be required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

English (ENGLISH) 245**Creative Writing, Poetry**

Students will understand the structure and elements of poetry and the writing process, produce fully-developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer. Students will experiment with different approaches to form, voice, narration, imagery, translation, creative response, and revision. A minimum of 200-250 finished lines of original work is recommended. Journals and exams may also be required. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

English (ENGLISH) 247**Creative Writing, Non-Fiction**

Students will explore the structure and elements of non-fiction works of literature and the writing process, produce fully developed works of non-fiction, including memoir, literary non-fiction, and personal essay, and demonstrate an understanding of the critical terminology of the creative writer. Students will experiment with different approaches to the elements of the non-fiction structure, including topics, voice, research, and rhetorical devices. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

English (ENGLISH) 276**Feature Writing for Newspapers & Magazines**

This course teaches feature writing for newspapers and magazines. Study and applied skill emphasize idea development for the extended feature article,

Grade of C or better in ENGLISH 101

3 Lecture hours. 3 Credit Hours.

Offered At: HW, TR, WR

English (ENGLISH) 299**Special Topics In English**

Selected topics in English for students interested in further developing their understanding of specific authors, movements, genres, styles of writing, and forms of language; emphasis on linguistic structure, social contact, and interpretation. Writing assignments, as appropriate to the discipline, are part of the course.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

Repeatable: Yes, up to 4 times

Entrepreneurship (ENTRE)

Entrepreneurship (ENTRE) 201**Introduction to Entrepreneurship**

The interdisciplinary course introduces participants from various disciplines to the concept of sustainable entrepreneurship, a manageable process applicable across careers, work settings, and time. The course focuses on building entrepreneurial attitudes and behaviors that will lead to creative solutions within the business community and other organizational environments. Course topics include the history of entrepreneurship, the role of entrepreneurs and intrapreneurs in the 21st century global economy, and opportunity identification. The course will examine elements of creative problem-solving, development of an enterprise concept/model. Examination of feasibility studies, and the social/moral/ethical implications of entrepreneurship. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 118, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR, WR

Entrepreneurship (ENTRE) 202**Opportunity Recognition and Development**

Participants will learn techniques and processes leading to opportunity (value) recognition to include the assessment of target market, current economic, social, and political climate that provide value opportunities for entrepreneurial ventures. Entrepreneurial opportunities will be assessed relative to personal strengths and weaknesses, financial, professional, social, and personal goals. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 118, and Grade of C or better in ENTRE 201, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

Entrepreneurship (ENTRE) 203**Entrepreneurial Accounting & Finance**

An advanced entrepreneurial course structured to expose participants to accounting and financial methodologies in order to assess or predict the financial performance of their enterprise. Building upon their business concepts or existing enterprise, participants will be introduced to core financial and managerial accounting concepts: financial analysis techniques will enable them to prepare short and long-term financial operations plans, including cash requirements for enterprise startup and ongoing operations. Participants will be trained to use computerized accounting software as part of a managerial tool kit to support operation assessment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 118 and Grade of C or better in (ENTRE 201, and ENTRE 202), or Consent of Dept Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: KK, OH, TR, WR

Entrepreneurship (ENTRE) 204

Entrepreneurial Marketing & Sales

Introduces participants to marketing and personal selling strategies designed to support entrepreneurial development and growth. Participants will develop a theoretical and practical understanding of key marketing and sales strategies, including competitive product/services pricing, product/service promotion and distribution, customer and supplier qualification and the closing of sales transactions. This course will utilize the lecture and presentation format supplemented by interactive computer simulation to facilitate the participant's understanding of marketing and sales. Writing assignments, as appropriate to the discipline, are part of this course.

Eligibility for English 101 and Math 118 and Grade of C or better in (ENTRE 201, and ENTRE 202), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

Entrepreneurship (ENTRE) 205

Law for the Entrepreneur

This course is a required course in the Entrepreneurship program it provides the student with an overview of the formation and operation of business enterprises, exposes the students to types of business organization, contract law, leases, intellectual property and employment law. Students will learn about sole proprietorships, general and limited partnerships, limited liability companies and corporations, the benefits and disadvantages of each type of entity as well as the formation, dissolution and record keeping for each of these entities. Students will apply this information to business plans and will learn about other fundamental areas of law affecting business entities. Writing assignments, as appropriate to the discipline, are part of this course.

Eligibility for English 101 and Math 118, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

Entrepreneurship (ENTRE) 206

Entrepreneurial New Venture StartUp

Participants will explore and identify problems that arise in the start-up phase of an entrepreneurial venture by developing a business plan/concept for a new venture and pitching it to a panel of judges. Alternatively, participants have the option to explore and identify the obstacles to success that occur while managing and operating a business venture in a computer-simulated environment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (ENTRE 201, 202, 203, 204, and 205), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, TR, WR

Environment Studies (ENVR ST)

Environment Studies (ENVR ST) 101

Man & Environment I

Interdisciplinary study of humans, the environment and their interrelationships, including resources, processes, wastes, growth, change, values and individual responsibility and involvement; emphasis of ecology of Chicago metropolitan environment; individual in relation to urban systems and urban systems in relation to world environment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: TR, WR

IAI: L1 905 **GE:** Life Sciences

Environment Technology (ENVR TC)

Environment Technology (ENVR TC) 104

Energy Systems Fundamentals

Course covers the basics of building envelopes, HVAC, lighting, insulation, glazing, plumbing and electrical systems, construction materials, and the surrounding environment. Incorporates blueprint/design fundamentals. Focus on construction engineering concepts. Introduces LEED and Energy Star programs, relevant environmental, health and safety principles, impacts, and regulatory implications. Provides a broad overview of energy use and efficiency in structures and why it matters. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 107

Environmental Geology

This course will examine human interactions with geologic processes and hazards, including earthquakes, volcanoes, landslides, subsidence, hydrology, and flooding; occurrence and availability of geologic resources, such as energy, water, and minerals; principals of land-use planning, pollution, and waste disposal, environmental impact, health, and law. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

IAI: P1 908 **GE:** Physical Sciences

Environment Technology (ENVR TC) 114

Renewable Energy Systems

An introductory, work-skills course on principles, concepts, applications, and installation of renewable and alternative energy technologies. Distinguishes between technologies appropriate to industrial / commercial settings versus those intended for residential structures. Covers renewable energy sources (solar, wind, geothermal, etc.) as well as alternative technologies utilized for building operations (microturbines, fuel cells, combined heat and power). Designed to prepare tradesman for the installation of various technologies. Up to five (5) off-campus field trips to alternative energy installations will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 121**Intro To Hazardous Materials Management**

This course is an overview of the environmental impacts resulting from hazardous materials such as asbestos, and their mismanagement. Emphasis is placed on understanding the sources responsible for soil, water, land, and air pollution and the environmental laws governing our natural resources, including asbestos. Emphasis is placed on storage and treatment practices, monitoring, sampling and handling techniques, damaging effects on humans, ecology and environment, as well as governmental regulations concerning soil, water, and air. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 131**Environmental Health & Safety**

Introduction to health and safety principles and skills needed to conduct field operations dealing with hazardous substances and meets initial training requirements of the Occupational Safety and Health Administration for workers engaged in hazardous waste operations. Course includes fundamentals of hazard recognition, toxicology, selection, use, and limitations of personal protective equipment, and safety procedures for conducting waste site use, and limitations of personal protective equipment. It consists of lectures and demonstrations, problem-solving exercises, discussions, and field exercises. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 141**Site Investigation & Sampling**

Introduction to the techniques for monitoring and sampling of soil, water, and air. Emphasis is on site investigation procedures for contamination by hazardous materials; the use of specialized sampling equipment, its maintenance and repair, and record keeping for chain-of-custody and other documentation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 144**Building Systems Maintenance**

Course is comprised of seven energy efficiency topics in building operations and maintenance. Building Operators Certification is a professional development program in the energy and resource efficient operation of buildings to qualify operations and maintenance staff for certification. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 151**Intro to Environmental Laws & Policies**

This course introduces the student to the United States legal system, and to the doctrines and statutes which regulate the production, treatment, transportation, and disposal of hazardous materials. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENVR TC 121.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 175**Hazardous Material Handling & Transportation**

This course is designed to explore the regulations involving the transportation of hazardous materials and waste. It includes manifesting, generator and transporter standards, Department of Transportation hazard classes, placards, labels, markings, spill response, and driver responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 190**Introduction to Animal Sciences**

This is a survey course that will provide a firm biological and natural sciences background to students for understanding the principles important to the raising and management of livestock and companion animals. Students will have the opportunity to learn from animal industry leaders. The course is team taught to incorporate Animal Sciences instructors who are specialists in their subject matter areas. Writing assignments, as appropriate to the discipline, are part of the course.

Placement Test, or Grade of C or better in ENGLISH 101 and MATH 118 or higher.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 191**Introduction to Crop Sciences**

This course is designed to introduce students to the basic principles of plant growth, including human and environmental influences and the theoretical and practical application of agronomic principles to crop production. It also, serves as an introduction to basic agronomy revolving around crop production in the Midwest. The subject matter presented will provide an overview of major aspects of plant and soil management, pest control, and soil and water conservation issues and practices and how they affect growth and development. Writing assignments, as appropriate to the discipline, are part of the course.

The student should be capable of college entry level reading, writing, and mathematics.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 192**Introduction to Soil Science**

This course is designed to provide a comprehensive treatment of the basic principles of soils as they exist and interact in the environment. The course emphasizes soil as a natural body in nature, its formation, classification, chemical and physical properties. The course is designed to be equally useful to the non-agricultural production students, including those studying plant science, ecology and environmental science, and to students in curricula such as agronomy, crop science, soil science, horticulture and forestry. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of high school Chemistry is required.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 193

Introduction to Horticulture

This course is designed to offer the student a general introduction to the principles of plant growth and development as they apply to the wide range of horticultural crops and the industries related to production, marketing and utilization of horticultural crops. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 204

Residential Energy Systems

Course addresses energy systems and energy efficiency technologies utilized in single- and multi-family residential building forms. Covers systems design and installation in both new construction and retrofit projects. Introduces field auditing techniques, environmental impacts (indoor air quality, asbestos, lead, voc's, radon, waste disposal issues, etc.), worker health & safety considerations, Energy Star certification, building commissioning procedures, and local regulatory requirements. An off-campus field trip to a residential "green" building/construction site will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 209

ADVANCED URBAN AGROECOLOGY

This course explores ways to apply the knowledge and skills acquired through the full sequence of classes. The student will be expected to identify a practicum location and spend 64 hours working (either with or without compensation) on projects associated with the organization and relevant to the course material. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENVR TC 109 and 3 ADDITIONAL LAB COURSES (ENVR TC 190, 191, 192, 193, CHEM 121, BIOLOGY 119, or BOTANY 201) or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 211

Recycling & Waste Minimizing

This course presents information on reuse and recycling of non-hazardous materials that dominate the municipal waste system. Waste reduction techniques for industrial processes that generate hazardous waste constitute the second half of the course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 214

Institutional Energy Systems

Course covers the types of energy systems and energy efficiency technologies in use in commercial, industrial, and high-rise buildings. Includes design, installation, testing, assessment, and operation of technologies in these structures, and details the integration of system control components. Also encompasses a synopsis of environmental, health & safety for construction and post-construction activities, Energy Star, LEED certification, other pertinent programs and regulatory aspects. An off-campus field trip to an institutional "green" building/construction site will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 241

Environmental Sampling

This course is an in-depth study of the procedures and concepts used by EPA to investigate sites. Emphasis is on hazardous waste at both controlled and uncontrolled sites. The course will include the investigation of ground water, surface water, air, and soil contamination including health and risk assessments. This course is designed for students interested in the fields of environmental engineering and environmental science. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENVR TC 121 and ENVR TC 131.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 243

Environmental Analysis

This course will introduce the student to the foundations of environmental chemistry. Man-made and natural systems will be examined. Students will be encouraged to qualify and quantify the relationships between chemistry and the environment. United States Environmental Protection Agency analytical requirements will be surveyed using inductively coupled argon plasma, gas chromatography, mass spectrometry, ion chromatography and UV-Vis spectrometry, among other state-of-the-art analytical technologies. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHEM 121 and BIOLOGY 106.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: WR

Environment Technology (ENVR TC) 244

Energy Equipment Troubleshooting

A second tier course comprised of four (4) core classes in maintenance, operation, and diagnostics of electrical and HVAC systems, and two of four (2 of 4) possible electives in system specialty topics. Buildings Operator Certification is a professional development program in the energy and resource efficient operation of buildings to qualify operations and maintenance staff for certification. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: WR

ESL (Integrated) (ESLINTG)

ESL (Integrated) (ESLINTG) 98

Intermediate Integrated ESL

This is an integrated reading/writing course at the intermediate ESL Level designed to increase students' receptive and productive command of written English. The focus is on grammatical structures, as well as reading and composition at the intermediate level. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement Test or Consent of Department Chairperson.

6 Lecture hours. 6 Credit Hours.

Offered At: HW, TR

ESL (Integrated) (ESLINTG) 99**High Intermediate ESL**

This is an integrated reading/writing course at the high-intermediate ESL level designed to increase students' receptive and productive command of written English. The focus is on sentence structure, reading and authentic texts, and essay writing. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement Test or Grade of C or better in ESLINTG 98, or Consent of Department Chairperson.

6 Lecture hours. 6 Credit Hours.

Offered At: HW, TR

ESL (Integrated) (ESLINTG) 100**Advanced Intergrated ESL**

This is an integrated reading/writing course at the Advanced ESL Level designed to increase students' receptive and productive command of written English. There is a review of sentence structure and sentences connection; extensive reading of authentic texts, including academic ones; and frequent essay-writing. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement Test or Grade of C or better in ESLINTG 99, or Consent of Department Chairperson.

6 Lecture hours. 6 Credit Hours.

Offered At: HW, MX, TR

ESL Reading (ESLREAD)

ESL Reading (ESLREAD) 98**ESL Intermediate Reading**

ESL READ 098 Intermediate academic reading skills for English Learners; focus is on comprehension and analysis of intermediate reading materials, mechanics, and academic vocabulary development. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement test, or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

ESL Reading (ESLREAD) 99**ESL High-Intermediate Reading**

ESL READ 99 High-Intermediate academic reading skills for English Learners; focus is on comprehension and analysis of academic textbooks and other materials, mechanics and academic vocabulary development.

Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement test, or grade of C or better in ESLREAD 98, or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

ESL Speech (ESLSPCH)

ESL Speech (ESLSPCH) 98**ESL Intermediate Oral Communication**

Development of oral communication skills for intermediate English Learners required for successful pursuit of higher education; basic interpersonal communication, small group discussion, speech organization and delivery. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement test, or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

ESL Speech (ESLSPCH) 99**ESL High-Intermediate Oral Communication**

Development of oral communication skills for high- intermediate English Learners required for successful pursuit of higher education; intermediate interpersonal communication, small group discussion, speech organization and delivery. Writing assignments, as appropriate to the discipline, are part of the course.

ESL Placement test, or grade of C or better in ESLSPCH 98, or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

ESL Speech (ESLSPCH) 100**ESL Advanced Oral Communication**

Development of oral communication skills for advanced English Learners required for successful pursuit of higher education; advanced interpersonal communication, small group discussion, speech organization and delivery. Writing assignments, as appropriate to the discipline, are part of the course.

ESL placement test, or grade of C or better in ESLSPCH 99, or consent of department chairperson or ESL instructor.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Excrcise Sci and Sports Studies (ESSS)

Excrcise Sci and Sports Studies (ESSS) 101**Personal Trainer Preparation**

This course introduces the knowledge and skills necessary to practice as a certified personal trainer for a variety of client populations, including the foundations of client interaction, the assessment of physiological, functional, and biomechanical aspects of human movement in the individual, and the design and supervision of strength and aerobic individual and group exercise programs. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Excrcise Sci and Sports Studies (ESSS) 102**Personal Trainer Practicum**

The purpose of this course is to provide practical experience for students enrolled in the personal fitness trainer program. The practicum experience is focused on the application and synthesis of the knowledge base skills of a personal trainer in a supervised commercial, community or clinical fitness setting in order to actively engage individuals of various ages and functional abilities. The course includes a campus-based lecture series that provides review and supplemental knowledge of the personal training profession.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

5 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Exercise Sci and Sports Studies (ESSS) 103

Allied Health Clinical Skills

Course Catalog Description: This course serves as an introduction to rehabilitation professions, the basic concepts governing rehabilitation practice, and skills performed by a rehabilitation aide. Course work includes orientation to various practice settings and scope of practice for a rehabilitation aide. This includes education and training, communication, patient care, basic medical terminology, mobility, assistive devices, activities of daily living, adaptive equipment, and therapeutic exercise. Completion of this course will give the student the skills to work as a rehabilitation aide under the supervision of a physical or occupational therapist or a physical therapist or occupational therapist assistant in a variety of practice settings including hospitals, skilled nursing facilities, inpatient/outpatient rehabilitation centers, and home care. Writing assignments, as appropriate to the discipline, are part of this course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Exercise Sci and Sports Studies (ESSS) 112

Functional Anatomy & Kinesiology

This course provides an organized study of human anatomy and kinesiology, the study of human movement. A working knowledge of both human anatomy and kinesiology are fundamental to student success in programs within the Exercise Science and Sports Studies (ESSS) department. Emphasis is placed on the integration of structure and function of the skeletal, articular, muscular, nervous, and circulatory systems. Upon completion, students should be able to identify skeletal anatomy including bony landmarks and muscular anatomy including origins, insertions, nerve innervations, vascular supply, and action. The concepts of locomotion, biomechanics, forces and levers will be introduced and how these apply to functional movement. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: MX

Exercise Sci and Sports Studies (ESSS) 206

Sports First Aid

This course will introduce students to the proper protocols to follow to prevent injuries and to administer sports first aid. Students will learn how to perform physical assessment, conduct emergency actions steps, and administer first aid. Topics presented will include control of bleeding, treatment for tissue damage, and unstable injuries, moving injured athletes and returning athletes to play. Successful completion of the course leads to partial certification through the American Sports Education Program (ASEP) Professional Education Program. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ESSS 101, or Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Exercise Sci and Sports Studies (ESSS) 209

Corrective Exercise Training

This course will present an evidence-based approach to corrective exercise, the components of a comprehensive solution, and the practical know-how to develop and implement integrated strategies to improve common movement impairments. Students completing this course will be prepared to take the National Academy of Sports Medicine (NASM) Corrective Exercise Specialist credentialing examination. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ESSS 102 and ESSS 110, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Exercise Sci and Sports Studies (ESSS) 214

Exercise and Health Psychology

This course presents an overview of psychological, and social aspects as related to health promotion, health compromising and enhancing behaviors, stress management, coping strategies, coping with disease, coping with injury, the influence of social and physical environments on health, cognitive process of health information, health belief models, and models for behavior change. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in ENGLISH 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fine Arts (FIN ART)

Fine Arts (FIN ART) 103

Theater Arts

A cross-disciplinary approach to the performing arts. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Fine Arts

Fine Arts (FIN ART) 104

The World Of The Cinema

Study of various types of films; covers historical development, production methods, technique of films and critical evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, MX, TR, WR

IAI: F2 908 **GE:** Fine Arts

Fine Arts (FIN ART) 105

History of Painting, Sculpture & Architecture

Survey of art from pre-historic to contemporary. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW

IAI: F2 900 **GE:** Fine Arts

Fine Arts (FIN ART) 107**History of Architecture, Painting & Sculpture I**

Survey of art from pre-history through the 17th century. Writing assignments, as appropriate to the discipline, the course
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: F2 901 GE: Fine Arts

Fine Arts (FIN ART) 108**Hist Of Arch Paint Sculp II**

Survey of art from the 18th century to the present. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: F2 902 GE: Fine Arts

Fine Arts (FIN ART) 109**History Of Cinema**

An international survey of the history of cinema, from the silent era to contemporary filmmaking, emphasizing a study of various film genres from around the world and innovations in film production that have had significant influence on film as an art form. Full-length films and film clips will be screened in class. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: F2 909 GE: Fine Arts

Fine Arts (FIN ART) 110**Opera And The Humanities**

Opera as a medium in which the philosophic, aesthetic and psychological perspectives of composers and their eras are communicated; selected operas which parallel those offered in the community and present similar communication experiences will be studied; written material, radio broadcasts of operas, opera commentaries and opera performances will be utilized. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: F1 910 GE: Fine Arts

Fine Arts (FIN ART) 111**History of Photography**

The historical development of photography as an art form from 1839 to the present, including critical analysis of types of photographs and aesthetic movements in photography. Examines photographs for their aesthetic and humanistic values, emphasizing photographs as expressions of ideas and beliefs of photographers within their cultural and social contexts. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

IAI: F2 904 GE: Fine Arts

Fine Arts (FIN ART) 112**Dance Appreciation**

Study of dance and expressive movement reflecting socio-cultural and artistic traditions from early civilizations to the present. Compares ancient, modern, and contemporary dance forms and examines the contributions of individual dancers, dance companies, and choreographers to global cultural heritage. The history and aesthetic standards of dance are explored through lecture and concert attendance. Writing, as appropriate to the discipline, is expected for this course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: F1 906 GE: Fine Arts

Fine Arts (FIN ART) 113**Issues in Documentary Film**

This class will provide a broad survey of documentary films throughout film history. Issues of objectivity, truth, propaganda and mediation will be addressed through watching a variety of different documentary approaches. A movie will be shown in every class.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR

Fine Arts (FIN ART) 114**Film History I**

An international survey of the development of cinema from its origins in the late nineteenth century through the beginning of WWII. Select films will be considered for their historical, technological, aesthetic, or ideological significance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, MX, OH, WR

IAI: F2 910 GE: Fine Arts HD Course

Fine Arts (FIN ART) 115**Film History II**

An international survey of the development of cinema from WWII to contemporary practice. Select films will be considered for their historical, technological, aesthetic, or ideological significance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, MX, OH, TR, WR

IAI: F2 911 GE: Fine Arts HD Course

Fire Sci Mgmt/Fire Serv Op (FIREMGT)

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 101 Principles of Emergency Services

This course provides an overview of fire protection and emergency services; culture and history of fire science and emergency services, fire loss analysis, organizations of public and private fire protection services, and fire departments as part of local government. This foundation course includes introduction to fire protection, safety, tactics and safety. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 102 Strategies and Tactics I

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Basic procedures for suppression of fire; application to principles of building construction of human resources and equipment. This course will meet requirements of the Illinois Fire Protection Personnel Standards and Education Commission for Strategy and Tactics I. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 103 Fire Behavior and Combustion

History of fire sciences; theories and fundamentals of fire behaviors including how and why fires start, spread and are controlled. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 104 Occupational Safety & Health for Emergency Services

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 197 Principles of Emergency Responder Safety and Survival

This course is designed to help students to identify and explain the sixteen life safety initiatives and explain the concepts of risk management and mitigation as it pertains to emergency services. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 198 Strategies and Tactics II

Subject areas include strategic concepts in fire fighting, duties and responsibilities of command officers, incident command system (scene, manpower, apparatus, and Rapid Intervention Teams (RIT) management, multi-company operations, disasters, high-rise operations, critical incident stress, and tactical exercises. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 102.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 200 Management and Leadership I

This course is designed to provide information and skills required to act in primary supervisory role with a focus on leadership in fire service.

Topics covered include basic management principles and concepts, leadership styles and conflict resolution. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 201 Fire Service Hydraulics

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 202 Building Construction for Fire Science

This course focuses on the study of the components of building construction related to firefighting, fire resistance and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Fire Sci Mgmt/Fire Serv Op (FIREMGT) 203 Fire Suppression and Protection Systems

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 204
Management and Leadership II**

This course focuses on the role and responsibility of a fire officer who may be in charge of a single company or station. The course provides information on leadership styles, communication, group dynamics, coaching and counseling and performance appraisal. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 205
Chemistry of Hazardous Materials**

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 206
Management and Operations III**

This course is the third in a four-part sequence focusing on the roles and responsibilities of a department fire officer, cultivating leadership styles and advanced management skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 204 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 210
Principles of Fire Prevention**

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention, organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 211
Management Operations IV**

This course is the fourth in a four-part sequence focusing on the roles and responsibilities of a department fire officer, cultivating leadership styles and advanced management skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 206 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 212
Fire Investigation I**

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire science interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101, 198 and 202.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 213
Fire Investigation II**

This course is intended to provide the student with advanced technical knowledge on the rule of the law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and courtroom testimony. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 212.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 220
Fire Instructor I**

Methods and techniques of teaching for fire service instructors; principles of adult learning; teaching methodology; student assessment and evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in FIREMGT 101 and Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

**Fire Sci Mgmt/Fire Serv Op (FIREMGT) 221
Fire Instructor II**

Methods and techniques for Fire Service Instructor II training will examine methods and techniques for planning, development, and conducting a Fire Service Training Program. This course is designed for leaders in the emergency services field who desire to analyze, design, implement and evaluate training methods and techniques. Writing assignments, as appropriate to the discipline, are part of the course. This course will meet requirements of the Illinois Fire Protection Personnel Standards and Education Commission for the Standard Level II Instructor Certificate.

Grade of C or better in FIREMGT 220.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Food Service Administration (FOODSRV)

**Food Service Administration (FOODSRV) 103
Food Srv Sani/Recert**

Prepare yourself to be certified or recertified by the City of Chicago and the State of Illinois in Food Service Sanitation, including training and certifying food vendors for outdoor festivals. Food protection will be emphasized through sanitation training.

1 Lecture hours. 1 Credit Hours.

Offered At: DA

Repeatable: Yes, up to 4 times

Foundational Studies ESL (FS ESL)

Foundational Studies ESL (FS ESL) 4001

English Academic Purposes I

This is the first course of six designed for non-native speakers of English who are in preparation for college. This introduces students to the American College system and focuses on oral language development.; speaking, listening, communication, reading skills, and written expression. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4002

English Academic Purposes II

This is the second course designed for non-native speakers of English who are preparing to enter college. This course is a continuation of oral language development—speaking, listening, and communication; reading skills, and written expression. Emphasis placed on listening skills, discussion, and vocabulary development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4004

English Academic Purposes IV

This is the fourth of six courses designed for non-native speakers of English who are preparing to enter college. This course focuses on oral language development, skills for reading college textbooks, skills for writing about subject area content, interpreting graphically presented information, locating and using information, and using the college library and resource center. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4005

English Academic Purposes V

Study of the form and content of effective writing. Review of the essentials of written and spoken grammar and usage, and intensive practice in writing complete sentences, effective paragraphs and short essays/compositions. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4006

English Academic Purposes VI

This is the last of the six courses designed for non-native speakers of English who are preparing to enter college. This course focuses on critical reading skills, research skills, essay writing, grammar, and discussion of current events and subject areas topics. Writing assignments, as appropriate to the discipline are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4007

ESL: College Prep I

This is the first of six college preparation courses designed for non-native speakers of English who have complete English for Academic Purposes. Each course provides a foundation for study in college content areas. This course focuses on study skills, critical thinking and reading of historical and other nonfiction prose, and correctness of written expression. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4008

ESL: College Prep II

This is the second of six preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course will continue to focus on the study skills and correctness of written expression and will apply critical reading and thinking skills to literature. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4009

ESL: College Prep III

This is the third of six concurrent college preparation courses for non-native speakers of English who has completed English for Academic Purposes. This course focuses on listening skills for academic purposes, note taking and study habits, writing to learn, and skills for intensive reading of factual matter. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4010

ESL: College Prep IV

This is the fourth of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course continues to focus on listening skills for academic purposes, note taking and study habits, writing to learn, and critical thinking and reading. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4011

ESL: College Prep V

This is the fifth of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes/ This course focuses on lectures by visiting college professors, skills for reading science materials, academic writing, and strategies for college success. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies ESL (FS ESL) 4012**ESL: College Prep VI**

This is the last of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes.

This course focuses on lectures by visiting college professors, skills for reading psychology, sociology, political science, economics, and the humanities, and strategies for college success. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Foundational Studies Math (FS MATH)

Foundational Studies Math (FS MATH) 3001**Math Refresher I**

This course is designed for students needing a review of basic math in order to take college level math courses. This course provides a review of the rules of addition, subtracting, multiplication and division using whole numbers and decimals. Writing assignments, as appropriate to the discipline, are part of the course.

Must be taken concurrently with FS MATH 3002.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 2 times

Foundational Studies Math (FS MATH) 3002**Math Refresher II**

This course is designed for students needing a review of basic math in order to take college level math courses. This course focuses on percents, fractions, and integers. Writing assignments, as appropriate to the discipline, are part of the course.

Must be taken concurrently with FS MATH 3001.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 2 times

Foundational Studies Math (FS MATH) 3003**Math Refresher III**

This course is designed for students needing a review of basic math in order to take college level math courses. This course will review powers and roots; basic concepts of ratio, proportion, probability, and basic geometry. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Repeatable: Yes, up to 2 times

Foundational Studies Math (FS MATH) 3004**Elementary Algebra**

This course is designed to prepare students to take college level algebra. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ)

Foundational Studies Reading (FS READ) 1001**Reading I**

This is the first in the sequence of six courses designed to prepare high school students for college level course work. This course focuses on developmental skills essential to effective reading. Emphasis is placed on decoding, and word attack skills, and sight word recognition. Writing assignments, as appropriate to the discipline, are part of the course.

FS READ 1001 requires CCC RTW = 1 or CCC ESL or Write >=1 or Compass EWrite >=1 and Compass Read 1-49 or Asset Read 23-33 or CCCWRITE2 ESL or Writi >= 1.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, WR

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ) 1002**Reading II**

This is the second course in a sequence of six courses designed to prepare high school students for college level course work. This course will help students develop additional skills essential to effective reading. The emphasis on decoding skills will continue. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, WR

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ) 1003**Reading III**

This is the third course in a series of six designed to help high school graduates develop skills essential to effective reading. The emphasis on decoding skills will continue. Writing assignments, as appropriate to the discipline, are part of the course.

FS Read 1003 requires CCC RTW = 1 or CCC Write >=2 and Compass Read 1-49 and Co-Req of FS Write 2003

3 Lecture hours. 3 Credit Hours.

Offered At: HW, OH

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ) 1004**Reading, Writing, Critical Thinking I**

This is the fourth in a sequence of six courses designed to prepare high school graduates for college level course work. This course will help students increase their reading, writing, and critical thinking skills. Writing assignments, as appropriate to the discipline, are part of the course.

FS Read 1004 requires CCCRTW =1 or CCC Write >=2 or COMPASS Write >=1 and Compass Read 1-49 and FS Read 1005 Co-Req.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR, WR

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ) 1005

Reading, Writing, Critical Thinking II

This is the fifth in a sequence of six courses designed to prepare high school graduates for college level course work. It is a continuation of Reading, Writing, and Critical Thinking I and is designed to help high school graduates increase these skills for use in college level course content areas. Writing assignments, as appropriate to the discipline, are part of the course.

FS Read 1005 requires Co-Req of FS Read 1004

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR

Repeatable: Yes, up to 2 times

Foundational Studies Reading (FS READ) 1006

Reading, Writing, Critical Thinking III

This is the last course in a six course sequence designed to prepare high school graduates for college level work. It is a continuation of Reading, Writing, and Critical Thinking II and designed to prepare students to read across all majors content areas from a basic knowledge base. Students will gain basic content knowledge proficiency in literature, history, fine arts, geography, physical science, life science, medicine, and health. Writing assignments, as appropriate to the discipline, are part of the course.

FS Read 1006 requires CCCRTW =1 or CCCWrite <=2 or Compass Read <=49 and Compass EWrite <=4

3 Lecture hours. 3 Credit Hours.

Offered At: HW, MX, OH

Repeatable: Yes, up to 2 times

Foundational Studies Writing (FS WRIT)

Foundational Studies Writing (FS WRIT) 93

Foundational Studies in Literacy

Foundational Studies in Literacy is an integrated reading and writing course with a focus on helping students develop core literacy skills. The course involve thoughtful discussion, engaged critical thinking, and the reading of various genres of appropriate-level texts. Students will practice effectively communicating clear thoughts at the sentence and paragraph level as well as in longer-form writing. In addition to reading and writing, students will practice and implement strategies for long and short-term goal setting, while improving study skills to prepare for long-term success in subsequent courses or career pathways. Writing assignments, as appropriate to the discipline, are part of the course.

Placement into FSL is determined by the CCC Placement Test, or consent of Department Chairperson in collaboration with the FSL Coordinator. CCC Reading to Write score of 1 is required.

6 Lecture hours. 6 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Foundational Studies Writing (FS WRIT) 2001

Writing Mechanics I

This course is the first in a series of four designed for students who need to learn basic writing skills required for college level analytical writing. The course focuses on sentence structure and the mechanics of writing sentences and simple paragraphs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH, WR

Repeatable: Yes, up to 2 times

Foundational Studies Writing (FS WRIT) 2002

Writing Mechanics II

This is course two of four for students who need instruction in basic writing skills required for college level analytical writing. The course will cover writing paragraphs; how to organize thoughts and information; examining the source of information.; identifying problems of accuracy, specificity, and clarity, and writing explanations of the problem. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, WR

Repeatable: Yes, up to 2 times

Foundational Studies Writing (FS WRIT) 2003

Writing Mechanics III

This course is designed to improve the college writing skills of each student by understanding and implementing the writing process, mastering both paragraph and essay development—intro, body, and conclusion—and other type prose and reinforcing grammar and usage skills, as well as punctuation, capitalization, and dictionary usage. Writing workshop methods will be used to enhance students' personal writing styles, improve composition abilities, and build confidence. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

French (FRENCH)

French (FRENCH) 101

First Course French

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

French (FRENCH) 102

Second Course French

Continuation of French 101. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or grade of C or better in FRENCH 101

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

French (FRENCH) 103

Third Course French

Review and development of basic language skills, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or grade of C or better in FRENCH 102 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, TR, WR

HD Course

French (FRENCH) 104**Fourth Course French**

Review of language structure and interpretation of readings, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test or grade of C or better in FRENCH 103 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, TR, WR

IAI: H1 900 **GE:** Humanities HD Course

French (FRENCH) 206**Intensive Oral Practice French**

Practice in spoken language, fluency and accuracy. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or grade of C or better in FRENCH 104, Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, TR

GE: Humanities

French (FRENCH) 210**Modern Civilization & Culture French**

Recent social, cultural, and historical trends, conducted in French and English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

GE: Humanities HD Course

French (FRENCH) 213**Intro To Modern Literature French**

Selections from contemporary writings, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or grade of C or better in FRENCH 104, Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

IAI: H3 916 **GE:** Humanities HD Course

French (FRENCH) 214**Readings In Literature French**

Works from selected historical periods, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or grade of C or better in FRENCH 104, Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: H3 916 **GE:** Humanities

Game Design and Development (GAME)

Game Design and Development (GAME) 105**Game Design I**

Fundamentals of creating enjoyable, playable, and challenging, and marketable games. Includes a survey of the basic components of a well-designed game: artistic and technological components with a clearly defined goal, set of game criteria, and rules for game play. Writing assignments, as appropriate to the discipline, are a part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 106**Game Development and Society**

Discussion of how interactive entertainment affects and reflects society and culture, the psychology of gaming, how computer and video games change the way we think, learn, and interact, with important implications for how people live in the real world. Writing assignments, as appropriate to the discipline, is a part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 109**Creating the Art of the Game I**

Focused study on the aspects of creating art for a video game using industry-standard software and developing a game art design bible. Writing assignments, as appropriate to the discipline, is a part of the course.

Grade of C or better in COM DSGN 101 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 153**Game Design II**

Continued study in game design with a focus on concept development, design, and analogue prototyping. Using game design theory, analysis, physical prototyping, playtesting, and iteration, students learn how to translate game ideas and themes into gameplay for an overall player experience. Students will be exposed to the basics of effectively developing game ideas. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in GAME 105 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 160**Game Producing and Management I**

Basic procedures in the game development workflow process from pre-production to product release. This course builds on the fundamentals of game development and the mastery of new tools and contribute to projects in class and outside of class with a special focus on project management, documentation, technical production, and digital asset management. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in ENGLISH 101 and GAME 105 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 209**Creating the Art of the Game II**

Continued focused study on the aspects of creating art for a video game using industry-standard software, including integrating movement and modeling and further development of art assets. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in GAME 109 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 241

Gamification

Basic concepts in using motivational game design elements for non-game purposes to teach skills, change behavior, or raise engagement in corporate and educational settings. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in ENGLISH 101 and GAME 105 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 253

Game Design III

A continued focus of game concept development and design. Using game design theory, analysis, physical prototyping, playtesting, and iteration, students learn how to translate game ideas and themes into a playable digital game. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in GAME 153 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 254

Game Programming

Fundamental concepts and terminology of computer programming in C# for game development. Students will develop skills in designing and writing computer programs with no prior programming experience. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in MATH 118 or higher and GAME 153 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 259

Business of Games

Introduction to the economics of gaming: the ways that games are funded, marketed, sold, and the relationships between publishers, developers, distributors, marketers, retailers, and other kinds of companies. Market and industry trends, licensing management, dynamics of company and product value, business differences between the major game platforms, legal issues that affect game development for developers and players—intellectual property and contract law—and the creation of a business plan will be discussed. Writing assignments, as appropriate to the discipline, are a part of this course.

Grade of C or better in ENGLISH 101 and GAME 253 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 260

Game Producing and Management II

Advanced procedures in the game development workflow process, from pre-production to product release. This includes common challenges, real-world challenges (problem cards and road blocks), building on the fundamentals of game management and focusing on project management, documentation, technical production, and digital asset management. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in GAME 160 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Game Design and Development (GAME) 299

Game Studio

Advanced development in creating a playable game or module. Coding, art, design, and production are parts of the intense course of study where in-class and outside class work enables students to overcome challenges in the game production process. People skills and collaboration with a team are implemented. Writing assignments, as appropriate to the discipline, are a part of the course.

Grade of C or better in GAME 254 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Geography (GEOG)

Geography (GEOG) 101

World Geography

Economic, political, and cultural geography of the modern world; includes the people, raw materials, industrial resources, and trade connections of various parts of the earth. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S4 900N, S4 906 GE: Social & Behavioral Sciences HD Course

Geography (GEOG) 102

Economic Geography

Contemporary view of the economic interdependence of the nations of the world with emphasis on role of the United States, the dynamic changing future of geography, and its influence on world conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

IAI: S4 903N GE: Social & Behavioral Sciences HD Course

Geography (GEOG) 201

Physical Geography

Physical environment of humans, their atmosphere, landforms, waters and other natural resources; emphasis on interrelationships of these areas and interaction of humans with their surroundings. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, WR

IAI: P1 909 GE: Physical Sciences

Geology (GEOLOGY)

Geology (GEOLOGY) 201

Physical Geology

Basic earth processes: weathering, erosion, deposition, mountain building, metamorphism, volcanism, and plate tectonics. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, MX, OH, TR

IAI: P1 907L GE: Physical Sciences

Health (HEALTH)

Health (HEALTH) 250

Health Education

Trends and issues of personal and community health; stress ways to maintain good physical and mental health; ecology, drugs, alcoholism, human sexuality, nutrition, disease and related topics. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

Health (HEALTH) 251

First Aid

Standard American Red Cross course in first aid; principles and practices of first aid for all age levels; safety and accident prevention stressed; First Aid Standard and Advanced certificates awarded to students completing the course successfully. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Health Information Technology (HIT)

Health Information Technology (HIT) 101

Foundations of HIT

Course examines sources of health information and their relationship with health agencies. Course discusses the healthcare delivery system in the United States, professional and trade associations related to healthcare, ethical obligations, cultural competence, and diversity in healthcare related to age, race, sexual orientation, education, work experience, geographic location, and disability. Content includes study of origin and purpose, content, order, analysis and use of medical records, methods of compiling, numbering, retrieving, and retention of health information. It introduces students to the electronic health information systems and electronic health record environment including standards, applications, and capabilities of the EHR. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 eligibility, Eligibility of MATH 90 or MATH 98 or higher.

Concurrent enrollment in or prior Completion of BIOLOGY 116 or BIOLOGY 226 and 227 with a grade of C or higher. Concurrent enrollment or prior Completion of CIS 120.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

HD Course

Health Information Technology (HIT) 102

Medical Billing

Course provides instructions in health records and insurance processing procedures, application of third party and managed care policies, procedures, guidelines, including obtaining referrals and pre-certifications. Various claim forms along with filing guidelines are introduced. Focus is on correlating health information with billing procedures in different healthcare settings. Course covers in-depth study of Medicare insurance system with emphasis on knowledge of terminology and guidelines involved in claim filing process. Topics also include understanding of Medicare reimbursement policies, appeal rights, and CMS current efforts to curtail healthcare fraud and abuse. Additionally, introductory information about other major insurance programs, reimbursement methodologies, and federal healthcare legislation programs will be provided. Writing assignments, as appropriate to the discipline, are part of the course.

Eligible for ENGLISH 101 and MATH 90, enrollment or completion of HIT 101 and 110 with a grade of C or higher, enrollment or completion of BIOLOGY 116 or BIOLOGY 226 and 227 with grade of C or higher, enrollment or completion of CIS 120.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 103

Basic ICD-10-CM/PCS Coding

Course covers the ICD-10-CM/PCS classification system required to organize medical information for retrieval and reporting. Focus is on both the ICD-10-CM disease classification system and ICD-10-PCS classification system. Work focuses on acquiring skills in coding diseases and procedures and abstracting medical data. Hands-on experience in coding case scenarios assignments. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 eligibility. Eligibility for MATH 90 or MATH 98 or higher, Completion of BIOLOGY 116 or BIOLOGY 226 and 227 with a grade of C or higher, Completion of CIS 120 with a grade of C or higher, Enrollment or Completion of HIT 201.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 104

Basic CPT Coding

Course covers basic principles and guidelines of CPT coding in both hospital-based and ambulatory environments. Students develop skills in using CPT to report reimbursable services. Topics include the format of CPT and practice code assignment, ethical coding principles, encoding systems and software with practice applications. Writing assignments, as appropriate to the discipline, are part of the course.

Current enrollment in or prior completion of HIT 103 and HIT 201 with a grade of C or higher

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 105

Pharmacology for HIT Professionals

Course offers comprehensive coverage of pharmacology as it relates to clinical documentation in the health record. Content includes medical terminology, drug classifications, therapeutic use in diseases and conditions, adverse effects, and side effects. This course introduces the student to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinic settings.

Grade of C or higher or concurrent enrollment in HIT 101 and HIT 110. Grade of C or higher in Biology 116 or Biology 226/227 or concurrent enrollment.

Grade of C or higher in CIS 120 or concurrent enrollment.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 108

Advanced ICD-10-CM/PCS Coding

Course covers the ICD-10-CM/PCS classification systems required to organize medical information for retrieval and reporting. Focus is on both the ICD-10CM disease classification system and ICD-10-PCS classification system. Work focuses on mastering skills in coding diseases and procedures and abstracting medical data. Hands-on experience in coding site-specific cases. Writing assignments, as appropriate to the discipline, are part of the course.

Enrollment in or completion of HIT 221 with a grade of C or higher.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 109

Advanced CPT Coding

Course covers principles and guidelines of CPT coding in both hospital-based and ambulatory environments. Students master coding skills in using CPT to report reimbursable services. Hands-on experience in coding site-specific cases. Writing assignments, as appropriate to the discipline, are part of the course.

Enrollment in or completion of HIT 203 with a grade of C or higher.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 110

Medical Terms for HIT Professionals

This course present medical terminology through study of medical word roots, prefixes, and suffixes. Focus of the course is on the relationship among symptomatic, disease, and procedural terms. Writing assignments, as appropriate to the discipline, are part of the course.

ENGLISH 101 eligibility, Eligibility of MATH 90 or MATH 98 or higher.

Concurrent enrollment in or prior Completion of BIOLOGY 116 or BIOLOGY 226 and 227 with a grade of C or higher. Concurrent enrollment or prior Completion of CIS 120.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 201

Fundamentals of Medical Science

Course provides introduction to medical science. Content includes study of nature and cause of disease, treatment and management of patients, and practical application of knowledge by health information management professional. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher or concurrent enrollment in HIT 203

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 203

Reimbursement Methodologies

This course introduces terminology, rationale and methodology used by third-party payers to determine the reimbursement for health care providers. Proper completion of the 1500 billing form and legal issues related to reimbursement will be discussed, as well as the role health information management plays in the charge master maintenance, reimbursement monitoring, revenue cycle. An overview of hospital and nursing home billing systems including proper submission of UB-92 billing forms will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher or concurrent enrollment in HIT 109

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 204

Health Statistics & Registries

This course is a survey of sources and uses of health data in the United States. It focuses on the collection of data, commonly used computations, and the presentation and reporting of data. The function and use of registries with emphasis on the Tumor Registry is studied. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher or concurrent enrollment in HIT 213 and HIT 214. Grade of C or higher or concurrent enrollment in HIT 222

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 213

Supervisory and Legal Aspects

Course studies impact of legal system on health information. Focus of this course is on the health record as a legal document, and effect of confidential communication laws, including HIPAA, on release of information and use of health information. Content of this course also includes management principles and supervisory role in healthcare organizations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or higher or concurrent enrollment in HIT 214

3 Lecture hours. 3 Credit Hours.

Offered At: MX

HD Course

Health Information Technology (HIT) 214

Quality and Performance Improvement

Course covers trends in healthcare quality control and performance, Performance Improvement (PI) foundations, fundamentals and principles. It reinforces understanding of PI concepts and issues with case studies and real-world scenarios. Hands-on practice through analytical and practical tools. Writing assignments, as appropriate to the discipline, are part of the course.

Corequisite HIT 213

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 221**Professional Practice I**

Course contains planned and supervised clinical experiences in medical facilities. Opportunity to gain knowledge and skill in admission and discharge procedures, health and vital statistics, coding and abstracting, physician incomplete records, medical transcription supervision, cancer registry, billing site and long term care facilities. Twenty hours are optional practice experience hours for HIT 221. Writing assignments, as appropriate to the discipline, are part of the course.

Corequisite HIT 108

9 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Information Technology (HIT) 222**Professional Practice II**

Continuation of HIT 221. This course provides opportunity to increase proficiency in coding skills, gain knowledge and skill in release information, patient care evaluation procedures, supervisory duties, and ambulatory care settings. Writing assignments, as appropriate to the discipline, are part of the course.

Current enrollment in HIT 204, HIT 213, and HIT 214 or prior completion with C or higher

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Health Professions (HEAPRO)

Health Professions (HEAPRO) 102**Health Career Studies**

This course introduces students to the integral knowledge and professional skills required to be successful in healthcare careers. It prepares students for the rigor of healthcare career programs. It emphasizes understanding of the professional culture, retention and application of key foundational skills for professional healthcare practice, application of health information technology, and demonstrating cultural competence in interactions with others. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or consent of Program Director or Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Science (HLH SCI)

Health Science (HLH SCI) 101**Trends & Issues in Health Care Delivery**

Introduction to health care delivery systems. Various health professions will be presented with emphasis on their primary role and how they interact or complement each other in delivery of health care services. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Science (HLH SCI) 102**Professional Medical & Health Care Practices**

This course includes the study of acronyms and current professional jargon used in the medical and healthcare environment. Emphasis includes examination of data used in the delivery of healthcare and the characteristics of the healthcare workforce. Chronic illness and rehabilitative care will be examined as well as primary and specialty care in light of managed care. The process of accrediting and licensure of health science programs will be explored. A case study format involving inter-disciplinary health science programs will be reviewed, emphasizing systematic clinical applications. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Technology TC4 (334HLTH)

Health Technology TC4 (334HLTH) 122**Assessing Community Resources**

This course will provide students with a brief overview of public health, its services and core functions in the protection and promotion of health and prevention of diseases and injury. It will include selected international, national and local health organizations that influence public health. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, 334HLTH 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Technology TC4 (334HLTH) 123**Community Health Problems**

This course will focus on developing community leadership and capabilities to identify and address community health needs. This course is designed to help students develop self, client and community capacities to protect and improve health. Emphasis is on building individual and community participation in health through information sharing, informal counseling, social support, health skills instruction, community-wide assessments and promoting changes in negative behaviors. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and 334HLTH 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Health Technology TC4 (334HLTH) 124**Communicable Diseases**

This course will provide students with an overview of communicable disease. It will provide the student with information on prevention, referral courses and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, CIS 120, and 334HLTH 121.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

History (HISTORY)

History (HISTORY) 111

History of American People To 1865

Exploration of the new world and its colonization; study of colonial life with emphasis on cultural heritage and the American Revolution; emergence of American nation traced through major trends and events in economic, political, cultural, social and intellectual affairs; includes past and present American cultural patterns. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 900 **GE:** Social & Behavioral Sciences

History (HISTORY) 112

History of American People From 1865

American history from the close of the Civil War to the present; political and economic developments, and social, intellectual and cultural changes. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 901 **GE:** Social & Behavioral Sciences

History (HISTORY) 113

United States Labor History

Labor movements development in the United States; worker issues such as wages, hours, working conditions are analyzed within their historical context; labor legislation, collective bargaining, social insurance, government intervention and prospects for organized labor are examined in their historical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, TR, WR

GE: Social & Behavioral Sciences

History (HISTORY) 114

The Afro-American In American History

Role of the African-American in American culture and the historical traditions which give rise to current dilemmas confronting the American community: traces history of people of African heritage from the background of African culture and slave trade as they became a part of American life. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH

IAI: S2 923D **GE:** Social & Behavioral Sciences HD Course

History (HISTORY) 115

Afro-American History Since 1865

Reconstruction period after the Civil War; black politics in the new South; rise of Jim Crow sentiment; alliance of northern industry and southern Bourbonism; early northward migrations and urban culture; growth of civil rights organizations; W. E. B. DuBois and Booker T. Washington; blacks in World Wars I and II; post-war developments. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR, WR

GE: Social & Behavioral Sciences HD Course

History (HISTORY) 117

History Of Chicago Metropolitan Area

Evolution of Chicago metropolitan area from frontier outpost to modern metropolis; economic, social, political and cultural changes, analysis of institutions, discussion of current problems requiring solution in context of their historical background. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

GE: Social & Behavioral Sciences

History (HISTORY) 118

Women In American History

Introduction to history of women in America, women's changing status in society; effect of major events and forces on women's lives; women's role in reform; discussion of recent problems in light of past developments. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW

GE: Social & Behavioral Sciences HD Course

History (HISTORY) 141

History of World Civilization to 1500

Definition and flowering of the classical civilizations of Eurasia, Africa, and the Americas. Emphasizes environment, cultural diffusion, and technology as shaping forces in world history; empires and trade links; the major religious systems to 1500 C.E. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 912N **GE:** Social & Behavioral Sciences HD Course

History (HISTORY) 142**Hist World Civiliz Frm 1500**

Effects of the military, scientific, industrial, and democratic revolutions on the balance of civilization after 1500 C.E. Topics include: the gunpower empires; the "Columbian exchange;" colonialism and the price revolution; capitalism and liberalism in global perspective; nationalism and dictatorship; the century of total war; the shifting world balance in the new millennium. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 913N GE: Social & Behavioral Sciences HD Course

History (HISTORY) 201**The History of the Mexican People**

This course will survey over a thousand years of Mexican history, beginning with the first migrants from Siberia, followed by the ancient Olmec, Toltec, Mayan and Mexica-Tenochca civilizations, and Spanish colonial rule. In addition, the course will examine the origin and development of Mexican culture. Regional, national and international laws and policies impacting Mexican and Mexican-American communities are analyzed. Concepts such as colonization, nationalism, and globalization's impact on Mexico's peoples are considered from a historical, social and economic perspective. Finally, the course will evaluate class inequalities in Mexico by analyzing the relationship of economics, gender, ethnicity and social class. Writing assignments will be required as appropriate for the discipline.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

History (HISTORY) 211**Problems In History**

Methods of historical research; specific subject matter depends on faculty member in charge. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK

GE: Social & Behavioral Sciences

History (HISTORY) 212**History & Culture Of China**

Study of Chinese history from Asian dynasties to the present. Political, economic, and cultural structure of traditional Chinese civilization, foreign relations, invasions, and consequences including the rise of the Communist Party and the emergence of modern Communist China. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, MX, TR

GE: Social & Behavioral Sciences HD Course

History (HISTORY) 213**American Civil Rights Movement**

An exploration of the American Civil Rights Movement led by African Americans and their allies during the twentieth century United States, with attention given to structural and institutional racial inequality, movement philosophies and political strategies, relationships to other freedom movements, and the movement's legacies. Writing assignments, as appropriate of the discipline are part of this course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

GE: Social & Behavioral Sciences HD Course

History (HISTORY) 215**History of Latin America**

Political and constitutional history of principal Latin American nations; European, American and Indian backgrounds, movements for independence, and social and economic movements pertinent to their present relationships with the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History (HISTORY) 216**U.S. Latinx History**

History, development and contributions of persons of Latin American origin or ancestry in the United States with emphasis on those of Mexican, Puerto Rican and Cuban background; includes pre-colonial origins in America, Europe and Africa; development of distinct cultures in the Western Hemisphere; migration patterns to the United States; development of communities in the United States and directions in the Chicago area. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 923D GE: Social & Behavioral Sciences HD Course

History (HISTORY) 225**Modern Middle East History**

This course examines the history of the Modern Middle East since World War I by looking at the challenges posed by imperialism and the rise of nationalism in the area. The region studied encompasses the Arab world, Israel, Turkey, and Iran. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History (HISTORY) 230

Ancient History

History of ancient Mediterranean civilization from its origins to the fall of the Roman Empire; background of Egyptian, Assyrian, and Babylonian civilizations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Social & Behavioral Sciences

History (HISTORY) 232

Modern European History 1500-1830

Medieval backgrounds, the Reformation and religious struggles, the development of nation-state, commercial revolution, colonization and European expansion. Includes the rise of Prussia and Russia and the French Revolution. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences

History (HISTORY) 233

Modern European History Since 1830

Recent European history, includes 19th century background, emphasis on the period following the Versailles Treaty of 1919. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences

History (HISTORY) 243

The Far East in the Modern World

Historical development of China, India, and Japan. Evolution of Oriental culture, economy, society, and government; the relation of America and the Far East, and the impact of Western ideas and institutions on the region. Survey of Philippines, Indo-China, Indonesia and Korea. Writing assignments, as appropriate to the discipline, are part of the course

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

IAI: S2 920N **GE:** Social & Behavioral Sciences HD Course

History (HISTORY) 247

African History to Colonial Period

Historical background of Africa south of the Sahara; pre-colonial and cultural development including tribal histories, impact of colonialism and development of African nationalism. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S2 920N **GE:** Social & Behavioral Sciences HD Course

History (HISTORY) 248

African History - Modern Period

Growth of colonial government; the economic role of colonies; early opposition movements against European imperialism; the psychology of the colonizer and colonized; civil wars and independence. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR

IAI: S2 920N **GE:** Social & Behavioral Sciences HD Course

History (HISTORY) 250

Topics in American History

Selected topics in history for students interested in further developing and understanding specific periods, movements and leaders; emphasis on the social, political, economic, intellectual and philosophical events and implications. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, WR

GE: Social & Behavioral Sciences

Horticulture (HORTIC)

Horticulture (HORTIC) 101

Intro To Ornamental Horticulture

Plant structures, terminology and use of identification keys; study of culture and use of annuals, biennials, herbaceous perennials. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Horticulture (HORTIC) 104

Plant Propagation

Techniques used in reproducing plants, both from seed and vegetative parts; propagating units, factors affecting rooting, growth substances, rooting media and seed treatment; principles of heredity, structure of genetic material and mechanics of transmission, and importance of genetics in hybridization. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: OH

Horticulture (HORTIC) 105

Identification of Herbaceous Landscape Plants

This course focuses on identification of herbaceous plants used in the landscape. Study the ornamental value, use and culture of annuals, biennials and perennials. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Horticulture program/plan 241.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: HW

Horticulture (HORTIC) 202**Landscape Design I**

Aesthetic and economic importance of grounds improvement, residential and commercial; site analysis, requirements of landscape plans, scale drawings and landscape symbols; nursery classification, selection of plant materials and landscape construction. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: HW

Horticulture (HORTIC) 205**Arboriculture**

Continuation of plants identification, covering use and culture of deciduous and evergreen trees and shrubs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered At: HW

Hospitality Management (HMGT)

Hospitality Management (HMGT) 221**Introduction to Beverage**

Overview of the three major categories of the beverage industry: beer, spirits and wine. Introduction to the distilling, brewing, wine-making, and bottling processes. Fundamentals of industry standards, state and federal regulations related to responsible alcohol service. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 222**Art of the Cocktail**

Principles and practices of the art of constructing cocktails and knowledge of the history of classic cocktails and their evolution. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 223**Bar Concept Management**

Introduction to various drinking establishments. The course also provides insight into principles, theories, concepts and practices related to bar planning, customers, management, staffing, and human resource matters. Writing assignments as appropriate to the discipline are also part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 224**Bar Administration and Operations**

Instruction on the fundamentals of basic bar management, focusing on core operational considerations, including bar set-up and position, inventory, costs control, dispensing, and point-of-sale. Hands-on instruction in bar service preparation and duties, culinary collaboration, bar hygiene, appearance and etiquette, and equipment maintenance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 225**Advanced Beverage Seminar**

The capstone course for the Bar Management program. Provides an in-depth study of beverage, customer service, and procurement processes and operations through immersion projects on budgets, business strategy, inventory management, and complete menus, leading to the creation of a beverage program. Writing assignments as appropriate to the discipline are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 724**Hospitality Management**

This class focuses on management skills within the hospitality industry including topics such as leadership styles, training and development, work environment, communication and team building. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 806**Customer Service Fundamentals**

This class has a defined focus on how to provide the service that is expected when a person is a guest at a hotel, restaurant, banquet hall, casino or other venue. It covers interactions with guests, responses to difficult situations, service recovery and how to develop better interpersonal skills that will lead to outstanding customer service. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 807**Hospitality Financial Management**

Essential managerial accounting functions utilized in the hospitality industry. This class is meant to be a foundation for managers in the hospitality industry. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 808

Restaurant Operations

Fundamentals of basic restaurant management are covered in the course where students are exposed to the entry level front-of-house positions that create the core of operations to the management of those employees and beyond including customer service and financial management. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98.

1 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 810

Bar and Beverage Management

Foundations of creating and maintaining a bar business including equipment, liquor, wine, beer, food pairing, sanitation, employee management, purchasing, receiving and storage, and planning for profit. Emphasis on the importance of revenue generation through alcohol sales in a restaurant while placing a focal point on responsible alcohol service. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807,808, 330CUL 700,701,703,705,708 and 723, or Consent of Department Chairperson

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 812

Hotel and Lodging Operations

Fundamentals of basic hotel and lodging management are covered in this class where students will learn the duties and responsibilities associated with hotel operations. Departments explored include front desk, housekeeping, sales and marketing, engineering, food and beverage and accounting. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807, 808, 330cul 700,701,703,705,708, and 723 or Consent of Department Chairperson.

1 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 814

Hospitality Procurement

Comprehensive look at acquisition of goods and services starting from the buyer determining what is needed to the actual receiving of the goods purchased. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807,808, 330CUL 700,701,703,705,708 and 723, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 816

Introduction to Hospitality Marketing Principles

Fundamentals and foundations of hospitality marketing. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807,808, and 330CUL 700,701,703,705,708, and 723, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 830

Catering and Event Management

Students will learn aspects of effective planning which in turn leads to successful execution of events and will be exposed to menu design, room selection, cost control, pricing, contracts and managing an event. Sales and marketing, financials, food and beverage service, and staffing will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807,808, and 330CUL 700,701,703,705,708 and 723, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 835

Introduction to Casino Operations Management

As an introduction to casino organization and culture, this class will explore the history, systems and technology and marketing crucial to casino and gaming operations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 and MATH 98. Grade of C or better in HMGT 806,807,808, and 330CUL 700,701,703,705,708, and 723, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Hospitality Management (HMGT) 860

Hospitality Internship

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in hospitality, culinary and baking and pastry. Students are placed in an approved employment situation mutually agreed upon by the student college staff, and employer, with the opportunity of applying knowledge and being exposed to work methods and settings unavailable in the classroom. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CUL 701,703,705,708,723 or Grade of C or better in BKPS 767,768,769,770,771 or Grade of C or better in HMGT 806,807,808,812.

20 Laboratory hours. 4 Credit Hours.

Offered At: KK

Human Dev and Family Studies (HDFS)

Human Dev and Family Studies (HDFS) 201

Human Development and Sexuality

A study of the social and psychological aspects of human sexuality.

Topics include sexual development, cultural influences, gender identity, sexual dysfunctions, love and relationships. Emphasis will be placed on the mental and emotional aspects of human sexuality as well as current issues. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 202**Intimate Relationships**

An overview of theories and research related to intimate/romantic relationships as well as family members, friends, and professional. Students will be encouraged to think critically about the various components of healthy relationships including comparative research within self expectations and effects of such as perpetuated by the media and other sources. Topics include communication, conflict, love, stress, strains, and overall impact on relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101 and CHLD DV 102.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 203**Family Development/Cross Cultural Perspective**

Course includes information on families and culture through an examination of research on child development, child rearing across cultures, and issues of equity, power and privilege. Readings and discussion on how culture and context influence all aspects of development whereby students gain in-depth understanding of families and lifestyles, communication and conflict, domestic violence, dysfunctions within families and inter-generational families. Course also provides a knowledge base for family assessment, understanding one's own family, tools to prepare one to work with families in a variety of settings and across the lifespan. Topics such as child rearing, language differences, racial identity, cultural traditions, and socio-economics status will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 204**Family Life Education**

Introduction to and history of the professional and practice of family life education, including needs assessment, evaluation of programs, understanding group process, and contexts of family life education. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DEV 101.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 205**Internship for Human Development**

Participation in occupational area of study, work experience under supervision of both college and employer. Internship objectives developed by student and faculty adviser, with approval of employer, to provide appropriate work-based learning experience at the site 15 hours per week. Writing assignments, as appropriate to the discipline, are part of the course.

Completed and accepted application, Grade of C or better in CHLD DEV 101 and 102, all courses in HDFS program including any special certificates.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 211**Principles of Human Services**

This course provides a foundation in theory and principles of human services. The course will have a special focus on family-related human services. The course will provide the theoretical and practical underpinnings of human service work for those interested in serving families. Ten hours observing family-related human service work is required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CHLD DV 101 and ENGLISH 101.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 214**Basic Applications in Human Services**

Human services professionals need to understand and implement behavior conducive work with individuals, families, and communities. Students will learn and apply ethical, professional, and culturally responsive behavior relevant to human services work. 20 hours observing family-related human services work is required. Writing assignments, as appropriate to the discipline, are part of the course.

Completed and accepted application, Grade of C or better on CHLD DV 101-1, CHLD DV 102, ENGLISH 101, and HDFS 2xx [recommended HDFS 211]

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Human Dev and Family Studies (HDFS) 215**Practicum for Human Services**

Principles of human services will be applied during human services work-experience. Students will apply and interpret theoretical, professional, and culturally responsive content knowledge in an approved human services site. Practicum objectives developed by student and faculty adviser, with approval of employer, to provide appropriate work-based learning experience at the site 15 hours per week. There is a weekly 2-hour seminar discussion with classmates. Writing assignments, as appropriate to the discipline, are part of the course.

Completed and accepted application, Grade of C or better on CHLD DV 101-1, CHLD DV 102, ENGLISH 101, and all HDFS courses

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: TR

Humanities (HUM)

Humanities (HUM) 100**Critical Readings in Humanities**

For students with little or no prior exposure to humanistic studies; an opportunity to improve and gain confidence in reading and writing skills in subject areas where creativity and imagination play a much greater part than they do in most basic skills courses. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Humanities (HUM) 105

The New World Of Mass Media

Analysis and evaluation of the strengths, limitations, impact and social media biases of both print and electronic mass media. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Humanities

Humanities (HUM) 107

Pop Cul-Mirror Of Amer Life

Interdisciplinary investigation of relationships between American life and popular culture; includes defining popular culture, and high culture; role of formulating popular culture in films, role of advertising in popular culture, stereotypes of the sexes and ethnic groups, role of sports in American life, popular music and its audience and television. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, OH

GE: Humanities

Humanities (HUM) 123

Intro To Arts & Ideas

Interdisciplinary introduction to the arts and ideas through the study of masterpieces past and present. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, WR

IAI: HF 900 **GE:** Fine Arts, Humanities

Humanities (HUM) 141

Afro-American Arts

Examination of African and Afro-American music, literature, art and philosophy, stressing African sources of Afro-American heritage and their contribution to Western culture. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Humanities HD Course

Humanities (HUM) 143

Intro to Latin American/Latino Studies

This course presents an interdisciplinary study of Latin American cultures, including Latino cultures in the U.S., from literary, artistic and philosophical perspectives. It explores various links between Latino cultures in the U.S. and other Latin American countries through the study of historical and artistic periods, major movements and integrated theories. Writing assignments, as appropriate to the discipline are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, MX, OH, TR, WR

IAI: HF 906D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 144

Introduction to Women's and Gender Studies

This course is an interdisciplinary introduction to the field of women's and gender studies. Students will investigate, research, learn about and discuss various historical events in feminist history, develop an understanding of various feminist theories and learn how to apply their knowledge and critical inquiry to current events. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, WR

IAI: HF 907D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 145

Intro to Diversity/Ethnic Studies

This course presents an introduction to the broad field of diversity/ethnicity through the interdisciplinary study of art, music, literature, history, and philosophy. This course will emphasize the content, style, and historical context of the various diversity/ethnicity related artifacts, particularly those created by and featuring depictions of diverse/ethnic groups. The course will feature African American, Latino/Latin American, Native American, and European American artists, artistic expressions, and portrayals of these groups in the arts, by themselves and "outsiders" and the impact of these portrayals with the groups and society at large. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: HF 906D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 146

Gay, Lesbian, Bisexual & Transgender

The interdisciplinary interpretation of historic and contemporary creative works (art, drama, film, literature, and music) with Gay, Lesbian, Bisexual and Transgender themes, primarily by multicultural GLBT authors and artists of the Americas. Analysis of GLBT culture from the perspective of Queer theory. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

IAI: HF 907D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 201

General Course I Humanities

Introduction to the interdisciplinary study of arts and ideas, with emphasis on principles of analysis and interpretation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: HF 900 **GE:** Fine Arts, Humanities

Humanities (HUM) 202**General Course II Humanities**

Continuing the interdisciplinary study of arts and ideas; with emphasis on principles of analysis and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: HF 901 **GE:** Fine Arts, Humanities

Humanities (HUM) 203**Arts of Contemporary America**

Analysis and evaluation of major art forms of today - film, television, poster art, journalism, poetry, fiction, painting and music. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: HF 900 **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 205**World Literature I**

Masterpieces of world literature including principal works from selected literary periods and traditions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: H3 906 **GE:** Humanities HD Course

Humanities (HUM) 206**World Literature II Existentialism**

Introduction to Existentialist philosophers, dramatists, and novelists. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Humanities

Humanities (HUM) 207**The Great Books**

For students who seek enrichment through acquaintance with formulation and ideas of Western civilization. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

IAI: H3 907 **GE:** Humanities

Humanities (HUM) 208**Women In Creative-Performing Arts**

Examination of the changing views of woman's nature, her relationship to man and to society as found in the creative and performing arts and philosophical works of a specific culture or cultures. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: HF 907D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 209**Latinxs in Chicago**

This course presents an interdisciplinary study of Latinx cultures in and around Chicago, from literary, artistic and philosophical perspectives. It explores the representations of various Latinx communities in Chicago, as well as the impact these communities have had on the visual arts, literature, pop culture, media, and performance arts. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, MX, OH, TR, WR

IAI: HF 906D **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 210**Comparative Mythology**

A comparative introduction to mythology throughout the world. The emphasis is on the nature of mythology through the study of mythological themes in folklore, myth, and legendary narratives and the visual representation of those themes. The course includes non-Western and multi cultural components. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, TR, WR

IAI: H9 901 **GE:** Humanities HD Course

Humanities (HUM) 212**Non-Western Humanities**

An interdisciplinary survey of significant intellectual and artistic achievements of non-Western cultures through selected works of literature, philosophy, visual art, music and other performing arts. This course transfers as Illinois Articulation Initiative general education generic course numbered HF 94N: Non-Western Humanities. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, TR, WR

IAI: HF 904N **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 215

The Art and Philosophy of the African Continent

African culture of the past and present including art, music, literature, history, language, political science and economics. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, OH

IAI: HF 904N **GE:** Fine Arts, Humanities HD Course

Humanities (HUM) 216

Athletics in the Ancient World

A survey of ancient events that emphasizes the role of sports in ancient societies. The course focuses on various aspects of athletics and provides a comparative examination of ancient and modern sports activities and athletic values. Some topics will include: sportsmanship in the ancient world, rules of the games, training and competing, women in ancient athletics, religion in ancient athletics, and athletics in ancient myth. Students will examine and discuss many types of ancient evidence, including readings in translation from several ancient literary texts, paintings, sculpture, and archeological remains. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

IBEW (432IBEW)

IBEW (432IBEW) 702

Electrical Circuitry

This course will include a study in circuitry used in the residential housing industry in the Chicago metropolitan area. Installation practices. Practical hands-on wiring skills such as splicing and termination will be taught.

The students are expected to apply themselves, learn and accomplish entry levels of proficiency in these subject areas. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 703

Conduit Bending I

This course is designed to teach the student the various methods of bending conduit employed in the electrical construction industry. The focus of the course is on hand-type benders and methods of conduit installation utilized in the commercial, industrial and residential housing industry. Writing assignments, as appropriate to the discipline, are part of the course.

4.5 Laboratory hours. 2 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 704

Construction Technology

This course will include a study of common hardware and wiring materials used in the electrical construction industry. This course will include first aid, personal safety, and job site safety; the use of rope, knot tying, and basic rigging; drill gauges, drilling and tapping holes in metal, and drill sharpening; using knockout sets, hole saws, concrete anchors and fastening devices; and the use and care of hand tools, drill motors, hammer drills and grinding wheels. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 705

Print Reading I

Upon completion of this course the student will have gained a thorough knowledge of residential prints and their use with the National Electrical Code. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 706

Conduit Bending II

Upon completion of this course the student will have gained skills in advanced conduit bending techniques utilizing mechanical leverage benders and hydraulic benders commonly used in the electrical construction industry. Hand-operated and automatic cutting and threading devices will also be mastered. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 707

Fire Alarm Systems

Upon completion of this course the student will have mastered the basic concepts and theory of installation and maintenance of fire alarms systems and fire suppression systems currently in use in the electrical construction industry. Testing, troubleshooting and safety techniques through hands-on training and field simulated problems are developed. The course will also discuss the Chicago and National Electrical Codes as they pertain to the installation and maintenance of fire alarm systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 708

Motor Control Systems

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of motor control devices commonly used in the electrical construction industry. Skills in testing, troubleshooting, and safety techniques will be developed through hands-on training and the use of field simulated problems. In addition, this course includes a discussion of the theory and the practical application of transformers as used in the electrical industry. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 709**Print Reading II**

Upon completion of this course the student will have gained through knowledge of, commercial and industrial construction prints and their use with both the Chicago Electrical Code and National Electrical Code. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IBEW (432IBEW) 710**Programmable Control**

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of programmable control systems commonly used in the electrical industry. Programming techniques and hands-on training will be provided in the lab on Allen-Bradley systems PL5/20, PLC5/11, and SLC 5/03 CPU programmable controllers. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 711**Communications**

The BICSI Installer level telecommunications cabling installation training is designed for individuals with 2 to 5 years of low voltage cabling experience. The class combines lecture with hands-on skills practice using tools and equipment provided in class. The following areas are covered: ANSI/TIA/EIA wiring Standards and the National Electrical Code. LAN cabling system characteristics and network topologies, media and media characteristics, transmission fundamentals, connectorization, grounding and bonding, pulling and terminating copper and fiber, testing and troubleshooting copper and fiber, splicing fiber, fire stopping site surveys and safety practices. There will be a final examination and a period of structured on-the-job training to be completed at the student's workplace. Writing assignments, as appropriate to the discipline, are part of the course.

4.5 Laboratory hours. 2.5 Lecture hours. 4 Credit Hours.

Offered At: DA

IBEW (432IBEW) 712**HVAC Systems**

Upon completion of this course the student will have mastered the theory of thermal dynamics and the processes used in the heating, ventilation and air-conditioning systems. Hands-on training is an integral part of the course. The course will cover skills in piping, brazing, soldering, and the E.P.A. standards for charging, and evacuating air-conditioning and refrigeration systems. This course meets the Refrigeration Service Engineers Society Technician Certification Standard. The midterm examination shall be the R.S.E.S. Technician Certification test. It will be mandatory to pass the R.S.E.S. Technician Certification test before becoming a journeyman. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 713**Instrumentation**

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of instrumentation control process commonly used in the electrical construction industry. The student will master the theory of flow, pressure, temperature, and level. Calibration techniques are taught through hands-on training, bench testing, and lab work with a variety of instruments, the Fluke 702 Calibrator and the Rosemount Communicator. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 714**Technical Math I**

Upon completion of this course the student will have mastered the calculations and applications of the formulas used daily in the first year apprentice course of study and in the electrical construction industry. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IBEW (432IBEW) 715**Technical Math II**

Upon completion of this course the student will have mastered code calculations and problem solving techniques used in the application of Ohm's Law in accordance with the National Electrical Code. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IBEW (432IBEW) 716**Electronics**

This course covers basic electronic and its application to the communications industry. The course will cover basic electric theory, direct current, alternating current, Writing Ohm's Law, the use and calibration of electrical test equipment, electrical safety, soldering skill, series, parallel and combination circuits, and electronic components. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 717**Structured Wiring**

This course provides the student with a thorough knowledge of the wiring materials commonly used in the communications industry. This course provides instruction on personal safety, jobsite safety and shop safety as it applies to the communications industry. In addition, there will be instruction in applicable EIA/TIA standards, BICSI requirements, media characteristics, transmission characteristics, fire protection, documentation, grounding, bonding, electrical protection, and other relevant industry practices. Upon satisfactory completion of the course, the student will be eligible for the BICSI Level I Installer Examination. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 718

Integrated Systems I

This course will introduce the student to the basic concepts and theory of digital and analog based audio communications systems. This course will cover skills in installation, balancing, testing and troubleshooting of audio communications equipment. Included are constant voltage audio systems, paging systems, background music systems. and sound reinforcement systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 719

Integrated Systems II

This course will cover the basic concepts and theory of transmission and distribution of digital and analog based video signals. This course will cover transmission line theory and signal propagation along with installation, testing and troubleshooting of video communications equipment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 720

Communication Systems Verification

This course covers the testing, benchmarking and troubleshooting of fiber optic and copper based communications systems. Also covered are the proper use of field test equipment, electrical safety, transmission characteristics, fault location and analysis of field test results. Writing assignments, as appropriate to the discipline, are part of this of course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 721

Fiber Optics

This course covers the basic concepts and theory of digital transmission of communications over fiber optic communications cabling. This course will cover skills in installation, testing and troubleshooting of fiber optic connectors and cabling systems. This course meets the Fiber Optic Association Certification standards for Fiber Optic Association Certification standards for fiber optic installation. Writing assignments, as appropriate to the discipline, are part of this course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 722

Computer Networking

This course provides the student with an overview of the basics of networking from the component hardware to the topology and theoretical foundation of networks. Various types of networks and network topologies will be covered. Writing assignments as appropriate to the discipline, are part of this course.

3 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 723

Industrial Control Systems

Upon completion of this course, the student will be proficient in the field of industrial control and planning. Industrial control training will focus on modern systems incorporating feedback loops, analog and pneumatic signals, and the smart family of transmitters. The dominant process variables – temperature, pressure, level, and flow – will be employed in the development of these skills. The planning section of this course will cover electrical layout with an emphasis on initial conduit installation, reading blueprints of various building trades, calculating loads based on the electrical code, designing distribution systems, and sizing and protecting electrical conductors. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 724

Electrical Power Systems

Upon completion of this course, the student will have mastered the theory of distribution and usage of electricity in common industrial settings. Hands-on training is an integral part of the course. The student will learn the basics of power distribution with an emphasis on transformers and the four basic power systems: delta, corner grounded delta, high leg delta, and wye. The student will learn about the largest user of this distributed power: rotating equipment - motors. The motors portion of the course covers single phase and three phase motors. The single phase motors include shaded pole, AC series, permanent split capacitor and motors with starting relays. The three phase motors include wye, delta and wye/delta motors. Finally, the students will learn the newest technique for motor control, variable speed drives. The course will cover the theory of pulse width modulation and the safe operation of frequency drive motors. The student will learn about line lengths, over voltage, overheating, harmonics, and drive components. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 725

Low Voltage Systems

Upon completion of this course, the student will have mastered the basic concepts and theory of the installation and maintenance of low voltage systems currently in use in the electrical construction industry. Installation, testing, troubleshooting and safety techniques through hands-on training and field simulated problems are developed. This course will cover topics in security, life safety, access, environmental controls, communications, data transfer, and data storage. The associated electrical codes are included in daily discussions as they pertain to installation and maintenance of low voltage systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 2.5 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 726**Low Voltage Systems Communications**

This course is designed for students who have completed 431IBEW-716 Electronics I. Student will be introduced to the basic concepts and theory of the installation and maintenance of fire alarm systems currently in use in the electrical construction industry. Testing, troubleshooting and safety techniques through hands-on training and field simulated problems are developed. This course will also discuss the various power systems that the fire alarm systems are powered from. The fire alarm and electrical codes are included in daily discussions as they pertain to the installation and maintenance of fire alarm systems. Students will also be introduced to computer componentry, hardware and software. Installation and testing techniques will be introduced. IT troubleshooting will also be emphasized.

Grade of C or better in 432IBEW 716 - Electronics

2.5 Laboratory hours. 3 Lecture hours. 3.5 Credit Hours.

Offered At: DA

IBEW (432IBEW) 727**Photovoltaic Systems**

This course is designed to provide students with knowledge of the principles, design and installations of Photovoltaic Systems. Coverage includes renewable energy sources and systems, parallel/series circuits and DC theory, solar site assessment. PV system design, PV module technology, PV system componentry, PV system installation techniques and utility interconnection will be focused on. This course is comprised of lectures, discussion, problem solving, and hands-on activities to demonstrate the safe and productive use of Solar Electricity. Students will be required to write reflections as well as provide written assessments on the principles and techniques of Photovoltaic Systems. 2 Laboratory hours. 3.5 Lecture hours. 4.5 Credit Hours.

Offered At: DA

Integrated Communication (INTCOMM)

Integrated Communication (INTCOMM) 100**Integrated Communication St**

This course prepares students to successfully complete the General Education communication sequence of English 101 and English 102 by providing necessary critical reading, writing, and thinking skills.

The course will address the writing process, critical reading strategies, rhetorical strategies, metacognition, academic literacy, and conventions of academic discourse, and, as needed, issues of grammar, structure and style. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 98 and READING 99, CCCRTW 2+, or COMPASS e-Write (5-6) and Reading (50 or >), or CCC Writing score of 3+ and Reading (50 or >), or Consent of Dept Chair.

6 Lecture hours. 6 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 4 times

Interdisciplinary Studies (INTDSP)

Interdisciplinary Studies (INTDSP) 101**College Success Seminar**

Introduction to academic skills that foster success in college and after college, critical thinking, reading, and writing as well as study skills, time management and stress management, use of technology for communication and research. These skills will be learned through the topic of the course which will be based in the idea of "Self and Community," but will vary depending on the instructor and department teaching the course. Topics will be approached from a variety of perspectives that represent interdisciplinary academic inquiry, and students will consider how to take personal responsibility for academic and career choices through exploration of relationship between self and community. Writing assignments, as appropriate to the discipline, are part of the course.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Interdisciplinary Studies (INTDSP) 102**Career Development and Decision Making**

This course helps students develop additional skills to aid in the transition from being a college student to being an employee. Learners will identify personal challenges that might affect their success and develop specific plans to address them. Overall, students will use critical thinking and self-reflection to develop soft skills that enhance employment preparedness. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 096 or Consent of Department Chairperson.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: DA, HW, KK, OH, WR

Interdisciplinary Studies (INTDSP) 103**News Literacy and Civic Engagement**

Fundamental critical evaluation of diverse news formats through the application of information literacy and media literacy. Topics explored in relation to the culture of civic engagement. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 096

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, WR

Interdisciplinary Studies (INTDSP) 104**College Success: Special Topics**

This course introduces students to the expectations of the college community and helps them develop skills that promote success during and after their college career. Topics will include note-taking methods, study and test-taking strategies, problem solving and critical thinking, oral communication, use of technology and library resources, campus support services, time and stress management strategies, and career exploration. Students will also learn the importance of taking personal responsibility for their academic and career choices. Topics may be approached from a variety of interdisciplinary perspectives that focus on connecting individuals to their local and global communities. Through assignments that integrate community engagement, service learning, and/or on-campus service projects, students will make connections between their coursework and their lives. ARC: 3 times.

1 Lecture hours. 1 Credit Hours.

Offered At: HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Interdisciplinary Studies (INTDSP) 299

Interdisciplinary Studies and Service

Students will engage in independent study to augment their educational plan. The course will engage students in service related projects and support activities such as professional networking, scholarly research, and attendance at seminars. Students will work outside the classroom setting and learn to become a practitioner in their field. Writing assignments, as appropriate to the discipline, are part of the course. This course is an allowed repeatable course, and may be repeated up to three times, and count for a maximum of 9 credit hours.

Eligibility for English 101 and Consent of Department Chairperson.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Italian (ITALIAN)

Italian (ITALIAN) 101

First Course Italian

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW

HD Course

Italian (ITALIAN) 102

Second Course Italian

Continuation of Italian 101. Writing assignments, as appropriate to the discipline, are part of the course.

ACTFL Writing Proficiency Test (Score 2.00), or Placement test, or ITALIAN 101, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW

HD Course

Italian (ITALIAN) 103

Third Course Italian

Review and development of basic language skills, conducted in Italian. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or ITALIAN 102, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW

HD Course

Italian (ITALIAN) 104

Fourth Course Italian

Review of language structure and interpretation of readings, conducted in Italian. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or ITALIAN 103, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW

IAI: H1 900 GE: Humanities HD Course

Japanese (JAPANES)

Japanese (JAPANES) 101

First Course Japanese

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: HW

HD Course

Japanese (JAPANES) 102

Second Course Japanese

Continuation of Japanese 101. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or JAPANES 101, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW

HD Course

Japanese (JAPANES) 103

Third Course Japanese

Review and development of basic language skills, conducted in Japanese. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or JAPANES 102, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW

HD Course

Japanese (JAPANES) 104

Fourth Course Japanese

Review of language structure and interpretation of readings, conducted in Japanese. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or JAPANES 103, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW

IAI: H1 900 GE: Humanities HD Course

Latin Courses (LATIN)

Latin Courses (LATIN) 101

First Course Latin

This course is the study of the Latin language that includes mastery of vocabulary and grammar, accidence, syntax, and etymology. The courses focuses on developing skills and strategies for acquiring new vocabulary and the understanding of sentences structure that increases the student's readiness to acquire other languages, related and non-related, and provides techniques that students can apply in many other fields. Students will analyze Latin roots of English words, parse and translate passages from Latin literature, recognize derivatives found in the Romance languages, and discuss the cultural content. (This course transfers to a the four-year state universities as electric credit.) Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: KK, WR

Latin Courses (LATIN) 102**Second Course Latin**

This course is the study of more complex grammatical and syntactical constructions. The course will increase the student's Latin vocabulary and understanding of etymology. Students will analyze Latin roots and English words, parse and translate more difficult passages from actual works of Latin literature, and continue to recognize derivatives found in the Romance Languages. Writing assignments, as appropriate to the discipline, are part of the course.

LATIN 101 with a C grade or better or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: KK

Library & Information Science (LIS)

Library Information Science (LIS) 101**Information Literacy**

This course is to help students gain the information literacy skills that enable them to find, retrieve, gather, analyze, and use information so they can prosper as a student, citizen and life-long learner. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, WR

Library Information Science (LIS) 105**Information Literacy Basics**

This course is to help students gain the information literacy skills that enable them to find, retrieve, gather, analyze, and use information from a variety of print and electronic sources so they can prosper as students, citizens and life-long learners. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 100, or Grade of C or better in ENGLISH 98, or Consent of Department Chairperson.

1 Lecture hours. 1 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Library Technology (LIB TEC)

Library Technology (LIB TEC) 101**Intro To Library Procedures**

Vocabulary, tools, systems, organization and equipment of modern libraries. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Library Technology (LIB TEC) 102**Multi-Media Technologies**

Clerical and supervisory duties in scheduling, circulation, maintaining, and operation of audio-visual and reproducing equipment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Library Technology (LIB TEC) 125**Learning Resource/Library Practicum**

Practice course in which students are placed in learning resource center/library situations. 20 hours per week plus two hour seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in LIB TEC 101.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: WR

Library Technology (LIB TEC) 201**Library Public Service**

Clerical and supervisory duties required in reference and circulation areas. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Library Technology (LIB TEC) 203**Materials Preparation Procedures**

Clerical and supervisory duties required in catalog departments; familiarization with commercially produced card catalog sets, classification tables and indices, subject headings, filing, cross referencing, typing forms and records. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in LIB TEC 101.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Library Technology (LIB TEC) 250**Systems & Computer Technology of Libraries**

Clerical informational and supervisory duties required in reference, circulation, ordering, receiving and verifying library materials. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Linguistics (LING)

Linguistics (LING) 101**Language And Culture**

Examines the relationship between language and culture. Includes the language socialization of children, gender differences in language, standard varieties and dialects of language, the effects of language on thought, and the nature of language in personal relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, TR

Linguistics (LING) 102**Introduction To Linguistics**

A general introduction to the theory of language, this course will focus on language systems, with particular attention to phonology, morphology, syntax, semantics, and regional and social varieties of English. Examples of general linguistic principles will be drawn from English as well as other languages known to those who teach the course. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, TR

Linguistics (LING) 103

Instructional Media Second Language Teachers

Introduction to a variety of instructional media used in classrooms and learning centers. Includes creative and effective use, adaptive application of materials, selection and evaluation, use and maintenance, and special techniques and devices for class instruction. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (CIS 101 or CIS 120), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

Literature (LIT)

Literature (LIT) 110

Introduction To Literature

Introduction to Literature Representative poetry and prose. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 900 GE: Humanities

Literature (LIT) 111

Poetry

Reading of representative poems from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 903 GE: Humanities

Literature (LIT) 112

Drama

Reading of representative plays from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 902 GE: Humanities

Literature (LIT) 113

Fiction

Reading of representative novels and short stories from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 901 GE: Humanities

Literature (LIT) 114

Ideas In Prose

Introduction to significant prose writing in major areas of thought. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX

IAI: H3 904 GE: Humanities

Literature (LIT) 115

Great Books Seminar/Topics Literature

This course focuses on the Great Books Foundations and Great Books texts and examines in-depth the global themes in the literature for enrichment, stimulation, pleasure and greater self-knowledge. Writing assignments, as appropriate to the discipline, are part of the course.

Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of 12 credit hours. Consent of Department Chairperson required for repeatability.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: H3 907 GE: Humanities

Repeatable: Yes, up to 4 times

Literature (LIT) 116

American Literature from Colonial Days to Civil War

Early American social and political documents, novels, short stories and poems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

IAI: H3 914 GE: Humanities

Literature (LIT) 117

American Literature from the Civil War to the 20th Century

American prose and poetry from 1865 to 1914. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: H3 915 GE: Humanities

Literature (LIT) 118

English Literature from its Beginnings to the Age of Johnson

Important writers and representative literary forms. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: H3 912 GE: Humanities

Literature (LIT) 119**English Literature from the Romantic Revival to the 20th Century**

Important writers and representative literary forms. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

IAI: H3 913 **GE:** Humanities

Literature (LIT) 120**Contemporary British & American Literature**

Major British and American writers of fiction, poetry and drama of the 20th century. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Humanities

Literature (LIT) 121**Contemporary African American Literature**

Survey of major African-American writers from the period of Harlem Renaissance to present day. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 910D **GE:** Humanities HD Course

Literature (LIT) 122**Perspectives in Black Literature**

Sequence and scope of writing development by blacks in America; analysis and interpreting of major works of prose, poetry and drama. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, MX

IAI: H3 910D **GE:** Humanities HD Course

Literature (LIT) 123**Literature of the U.S. from the Civil War to the Present**

Development of the literature of the United States from the Civil War to the present through the analysis of representative texts.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

IAI: H3 915 **GE:** Humanities

Literature (LIT) 124**Experimental Literature**

New directions in writing; experiments in poetry, prose, drama and exploratory writing. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Humanities

Literature (LIT) 125**Psychology in Black Literature**

Analysis of books by African-American writers from a psychological point of view; begins with autobiography of Frederick Douglass, concludes with black experiences by contemporary writers Cleaver and Jones. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Humanities HD Course

Literature (LIT) 126**Contemporary American Literature**

Major American writers of fiction, poetry, drama, and essays of the 20th Century. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

IAI: H3 914, H3 915 **GE:** Humanities

Literature (LIT) 127**Contemporary British Literature**

Major British, Irish and Scottish writers of fiction, poetry, drama and essays of the 20th century. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

IAI: H3 913 **GE:** Humanities

Literature (LIT) 128**Latin American Literature**

This course spans the centuries and the Western Hemisphere. It includes the pre-Columbian Mayan Indian authors of Popol Vuh and the world-renowned contemporary practitioners of magic realism. The course includes authors from Mexico, the Caribbean, Central America, and South America. Close attention will be paid to the historical and cultural context of the works. Readings, lectures, and course work will be in English. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, MX, TR, WR

IAI: H3 908N **GE:** Humanities HD Course

Literature (LIT) 129

U.S. Latino (a) Literature

This course explores the trends and movements of various periods of U.S. Latino(a) literature in relation to U.S. Latino(a) social and cultural history. As part of the literature of the United States, these works are distinct from, although sometimes influenced by, Latin American literature, which is written in Spanish or Portuguese by authors native to Latin American and Caribbean countries. The U.S. Latino(a) texts in this course – poetry, fiction, drama, memoir, and chronicle – depict various issues and themes pertinent to this ethnic segment of the United States, including Latino(a) writers' stylistic and thematic contributions to American mainstream literature. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, WR

IAI: H3 910D GE: Humanities HD Course

Literature (LIT) 130

Children's Literature

Survey of children's books, stories, magazines and related audio-visual material; criteria evaluated for building literature program within the classroom. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, TR

IAI: H3 918 GE: Humanities

Literature (LIT) 131

Survey Of Afro-American Poetry

Historical and critical survey of African-American poetry; minor emphasis on Harlem Renaissance and major emphasis on contemporary African-American arts movements. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Humanities HD Course

Literature (LIT) 132

Native American Literature

Emphasizing perceptions and perspectives, this introductory course will examine the construction of Native American identity by exploring the works of different Native American writers and filmmakers. It will carry out its pursuit by engaging with and interrogating the Eurocentric view of the Native Americans and the Native Americans' view of themselves. The course will emphasize the history, style, and content of the literature, situating it in a political, social, and cultural context. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

IAI: H3 910D GE: Humanities HD Course

Literature (LIT) 133

African American Fiction

Aesthetic values that determine quality of fiction written by African-Americans who profess a national consciousness; short fiction from anthologies, environment, style and social implications emphasized; critical and creative writings required. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Humanities HD Course

Literature (LIT) 137

The Black Woman In Black Fiction

Exploration of images of the African-American woman in novels and short stories through lectures, discussion, and optional out-of-class group sessions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

IAI: H3 911D GE: Humanities HD Course

Literature (LIT) 150

Women's Literature

Ideas and philosophy of women writers as represented in their works; problems of women and works portraying women characters in modern British and American works. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H3 911D GE: Humanities HD Course

Literature (LIT) 153

Gay and Lesbian Literature

Guided each year by a central sub-theme of the larger Queer culture, this course focuses on literary works by gay, lesbian, bisexual and transgendered individuals. Students will learn and combine principles of argumentation, making clear distinctions between emotion and rationality, in their responses (in both oral and written form) to course content. As historical and cultural content for those readings are provided, the course will examine the authors' theories (for instance, on topics related to class, race and gender) and the extent of their relevance in contemporary Queer Culture. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: H3 911D GE: Humanities HD Course

Literature (LIT) 155**Literature and Film**

Analysis of literature in film; comparison of literary and film techniques, verbal and visual language, and film and modern literature. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: F2 905,F2 908,HF 908 **GE:** Fine Arts, Humanities

Literature (LIT) 156**Creative Non-fiction**

A survey course of creative nonfiction in a variety of forms; personal narrative essays, true crime nonfiction novels, and first person cultural criticism. This course introduces students to a genre of literature, to practical approaches to the determination of literary meaning, and to the concerns of literature in general. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

IAI: H3 904 **GE:** Humanities

Literature (LIT) 157**Graphic Novels**

The world of graphic novels is a vast universe of stories ranging from the realistic and contemporary to the supernatural and historical. Students will read and discuss representative works with some attention to critical work and increase their enjoyment and appreciation of a variety of graphic novels, genres and creators while determining literary meaning, form, and value. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Literature (LIT) 211**Shakespeare**

Critical reading and discussion of representative Shakespearean histories, tragedies, comedies and sonnets. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: H3 905 **GE:** Humanities

Literature (LIT) 220**World Literature**

Survey of masterpieces in world literature: principal works and writers, literary periods, and traditions with selections from ancient times through present day. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IAI: H3 906 **GE:** Humanities

Literature (LIT) 223**Intro To Literary Genres**

Introduction to basic literary genres and their characteristics. Includes development of critical judgment and skill in analysis of literary works. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Humanities

Literature (LIT) 299**Science Fiction: Psychology & Prophecy**

A survey of major writers of science fiction. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Humanities

Logistics/Transportation/Distr (330TRNS)

Logistics/Transportation/Distr (330TRNS) 111**Introduction to Diesel Technology**

This course introduces the student to the fundamentals of basic, personal and shop safety industry requirements for Diesel Technology. In this course the student will learn to identify, use and care for hand and power tools commonly found in the diesel repair industry. Students will gain an understanding of the basic movement and parking procedures of vehicles and equipment. They will also learn about the history of the industry and explore career and employment opportunities in dealerships and independent shops, from maintenance to major overhaul. Additional topics of discussion include hazardous material handling and storage. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 112**Diesel Electrical Systems I**

This course will include electrical safety practices; tool use; connecting and disconnecting techniques; direct current symbols, components, and schematics; principles of DC voltage and current; Ohm's Law; and troubleshooting, repairing and calibration of electrical/electronic systems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 113

Introduction to Diesel Engine Construction

In this course students will learn the fundamentals of engine operation, diagnosis and repair including lubrication systems and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, disassembly, repair and reassembly of the engine. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 114

Diesel Engine Construction I

This course will provide students with concepts and skills required for engine construction, tune-up and troubleshooting procedures of diesel engines. Students will gain an understanding of alphanumeric coding and the integration of additional foundational skills required to identify and repair diesel engines. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 115

Suspension and Steering

This course will introduce students to the basic fundamental skills, technology, and service of automotive suspension and steering systems.

Areas of studies include; diagnosis and repair of steering systems, diagnosis and repair of front suspension systems, diagnosis and repair of rear suspension systems, miscellaneous suspension and steering systems, and diagnosis and adjustment of wheel alignment. Group and individual activities engage students in problem-solving techniques and manipulative skills while completing industry related activities. Safety instruction is integrated into all activities. Students will also learn to identify and describe various steering systems used on diesel-powered vehicles and have an opportunity to inspect, diagnose, and repair steering problems. They will make needed repairs on the suspension system and perform wheel alignments. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 116

Diesel Brakes

This course is designed to provide the student with an introduction to the basic principles of brake systems of diesel powered equipment. Emphasis is on maintenance, repairs and troubleshooting. The student will apply knowledge and understanding of the basic theory and operation of the brake systems, diagnose brake components for wear and usability, repair brake components by rebuilding or replacing parts, and adjust brake components. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 107. Grade of C or better in 330TRNS 111,112,113,114,115, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 209

Diesel Electrical Systems II

This course will include the study of DC resistance and conductors, principles of DC circuits, fundamentals of alternating current and semiconductors, basic electronic circuits, and digital electronics. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 211

Diesel Preventive Maintenance

This course introduces the student to the knowledge base and technical skills for all courses in the diesel preventative maintenance and inspection concentration. Areas of study include engine system maintenance, under hood and cab maintenance, electrical/electronic systems, frame and chassis maintenance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 213

Diesel Engine Construction II

This course will provide students with concepts and skills required for engine construction, advanced diagnostics of diesel engines, rebuilding and testing, repair of injection pumps and governors; troubleshooting engines and fuel system failures as well as the operation and adjustment of Cummins Pressure-Time System. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 214

Emission Controls

This course will provide students with in-depth study of how technology is used in the trucking industry. Current emissions control systems operations, troubleshooting and repair will be thoroughly addressed. Regulatory compliance, electronic vehicle management systems diagnostics, testing and adjustments will be discussed, along with hands on electronic diagnostic systems testing. Various OEM electronic fuel systems and diagnostic software will also be discussed and used. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 215**Diesel Engine Performance**

This course will provide students with theoretical and practical applications needed for the operation, servicing, and troubleshooting of various types of diesel engines. It will include the study of diesel fuels, diesel fuel supply systems, mechanical and electronic injection systems, computerized engine controls, as well as soot particle reductions. Diagnostic tools usage and problem solving to enhance engine performance are also incorporated in to the class. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 216**Heavy Duty Drives I (Manual)**

This course introduces students to power train systems used on medium/ heavy duty trucks. Topics include: introduction to power trains, clutches and flywheels, powertrain electronic systems, auto-shift mechanical transmissions, power take-offs, trucks drive lines, differentials and final drives, torque converters, and automatic transmissions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 217**Heavy Duty Drives II (Automatic)**

This course will provide students with theoretical and practical applications of power train systems used on medium and heavy duty trucks. Areas of focus will include power take-offs, truck drive lines, introduction to power trains, clutches and flywheels, powertrain electronic systems, differentials and final drives, torque converters and automatic transmissions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 218**Heating and Air Conditioning**

This course introduces systems used in medium/heavy duty trucks and heavy equipment. Classroom instruction on HVAC theory and operation along with local, state, and federal regulations are strongly emphasized. Topics include: HVAC safety, HVAC system theory and operation, A/C system component diagnosis and repair, HVAC system diagnosis and repair, HVAC operating systems and related controls, and refrigeration recovery, recycling, and handling procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, and PHY SCI 112.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 219**Hydraulic Systems**

This course will provide students with theoretical and practical applications of hydraulic principles into mobile hydraulic circuits. Students will gain an enhanced learning of basic hydraulic components including assembly and disassembly of valves, pumps and cylinders; servicing, diagnosing, and preventive maintenance procedures will be performed on trucks and heavy equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213,214,215,216,218, and PHY SCI 112.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: OH

Logistics/Transportation/Distr (330TRNS) 220**Advanced Diagnostics**

This course will challenge students and expand upon skills and knowledge learned in previous Diesel Technology-related courses. Students will perform diagnostic testing, and engage in problem-solving techniques and replicate real-world diesel maintenance and repair conditions. Topics include diagnosis and repair of emission systems, computerized engine performance systems, and advanced low and high-pressure fuel systems; proper use of advanced engine performance diagnostic equipment will be addressed. Prepares students for ASE A9 certification test. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213,214,215,216,218 and PHY SCI 112.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: OH

Manufacturing Tech TC1 (340MFGT)

Manufacturing Tech TC1 (340MFGT) 104**Statistical Process Control**

This course introduces the use of statistical process control (SPC) which ensures that production systems maintain quality through predictive control of variations. Various distribution curves and statistical control charts are introduced through specific production problems. The interpretation and use of process and product control data is presented through simulations of real scenarios. The course will also prepare students for the Manufacturing Skill Standards Council's Quality Practices and Measurement exam. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 139, and Grade of C or better or concurrent enrollment in MATH 125; or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 105

Introduction to Advanced Manufacturing I

This course presents the fundamentals of print reading, measuring skills needed to verify if produced parts meet print requirements and provide a general understanding of the materials and processes used in manufacturing. Visualization of 3D objects from orthographic views. The use of micrometers and dial calipers are stressed. The concepts of (GD&T) Geometric Dimensioning and Tolerancing, and quality tools are introduced. Computer-aided Design (CAD) will be introduced. The course also provides a general understanding of the behavior of the materials commonly used in manufacturing, the basic techniques used in processing them into useful products, the scientific theory underlying those processes, and the criteria for selecting particular tools, machines, and processes. Shop safety is discussed in detail. The course can lead to industry recognized certifications such as, Starrett PMI metrology, Lincoln Electric print reading, 3MSafety certificates, all NC3. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 106

Introduction to Advanced Manufacturing II

This course is an introduction to the fields of Advanced Manufacturing. Topics covered are the use of Computer Numerical Control in 3D printing, machining and robotics. Introductions to virtual welding and electricity will be covered. In the fluid power sections of the course topics included will be fluid power schematics, compressors, pumps, valves, and actuators. Students will design and build fluid power circuits using fluid power sources, valves, and actuators. In the industrial mechanisms section of the course, principals covered are drive trains, including gear, belt and chain drives, fastening devices. Torque and shaft speed measurements are covered. Students will also learn how to select the proper hand and power tools, including torque measuring tools. These studies can lead to industry-recognized certificates such as, Festo Industry 4.0 Fundamentals, Intro to Mechatronics, Snap-On meters, all NC3. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 107

Introduction to Advanced Manufacturing III

This class utilizes Computer Aided Drafting software such as AutoCAD, prototyping equipment, and small machines such as those found in a maker space to develop product design and prototyping skills. CAD software is taught to enable students to design a product with group input, and a class project will involve creating products with each of the available prototyping technologies. The class will conclude with a written and oral presentation of the products designed and issues taken into consideration while creating the designs, and discussing the next steps in the product design process. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 108

Robotics I

This course provides students with the basic operations of industrial robots, using the teach pendant. The course covers the tasks that the student needs to setup, record and/or troubleshoot programs. Students will be prepared to earn robotic operator certificates, such as Festo Robotics 1 NC3, Fanuc. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 109

Introduction to Manual Machining

This course is an introduction to machine tools and metal-cutting processes used in manufacturing. Students complete projects that require precision layout, set-up, machining, and inspection. These projects require students to perform various operations using horizontal and vertical band saws, drill presses, mills, and lathes. Students are also prepared to take industry recognized certification tests, such as NIMS Level 1 Measurement, Materials and Safety, Starrett metrology, 3M Safety NC3. Writing and math assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 110

CNC I Operations

The course introduces students to the CNC process, the operation of the CNC lathe and mill, and to their basic set-up, tooling, operation, and trouble-shooting of CNC machines. Topics include math for CNC, control functions, and the identification and use of various cutting tools. Students have the opportunity to obtain nationally recognized certifications, such as Hass, NIMS, Starrett metrology NC3. Writing and math assignments, as appropriate, are a part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 111

Machining Processes I

This course is an introduction to machine tools and metal-cutting processes used in manufacturing. Students complete projects that require precision layout, set-up, machining, and inspection. These projects require students to perform various operations on engine lathes, drill presses and power saws. Students are also prepared to take the NIMS Level 1 Measurement, Materials and Safety test, and the MSSC Safety test. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for READING 99 by COMPASS Reading (50-64), or Consent of Department Chairperson.

1 Lecture Hours. 4 Laboratory Hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 112**Machining Processes II**

This course is an introduction to machine tools and metal-cutting processes used in manufacturing. Students complete projects that require precision layout, set up, machining, and inspection. These projects require students to perform various operations on vertical milling machines, power saws and surface grinders. Students also have the opportunity to earn one or more NIMS Level 1 machining credentials including "Measurement, Materials and Safety," or "Job Planning, Benchwork, and Layout." Students with machine shop experience may attempt to earn NIMS Machining Level 1 in "Milling," or "Drill Press," or "Surface Grinding." Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for READING 99 by COMPASS Reading (50-64), or Consent of Department Chairperson.

1 Lecture Hours. 4 Laboratory Hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 113**Multiple Spindle III**

A study of theories and principles of multiple spindle practitioners utilizing practical lab applications. Study will include equipment operations such as tool grinding, electrical operations, tooling, and various service setting techniques. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 4 Lecture hours. 6 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 123**CNC Milling Operations & Programming**

This course introduces the programming setup and operation of CNC machining center. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the students' skills in the proper use, programming, troubleshooting of this equipment. Students will also earn the NIMS level 1 CNC Milling Program, Setup, and Operate credentials. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 140 and 340MFGT 112-1 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 137**CNC Turning Operations & Programming**

This course introduces the programming, setup, and operation of Computer Numerical Control (CNC) turning centers. Topics include: programming formats, control functions, program editing, part production and inspection. Various projects will strengthen the students' skills in the proper use, programming and troubleshooting of this equipment. Students will also have the chance to earn the NIMS Level 1 CNC Turning Program, Setup, and Operate Credential. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 140 and 340MFGT 111-1 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 138**Intro to Solidworks**

This course covers part modeling, detailing and assembly design using SolidWorks software. SolidWorks is a feature-based parametric solid modeler used for mechanical design and manufacturing. The topics include the basic functions needed to use SolidWorks to create parts, assemblies and production drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 99 and Grade of C or better in 340MFGT 139 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 139**Print Requirements-Quality Assurance**

This course focuses on the fundamentals of print reading and the measuring skills needed to verify print requirements. Visualization of 3D objects from orthographic views and the use of micrometers and dial calipers are stressed. The concepts of Geometric Dimensioning and Tolerancing, and quality tools (such as Pareto diagrams and fishbone charts) are introduced. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 140**CNC Fundamentals**

This course introduces students to the CNC process, the operation of the CNC lathe and mill, and to the basic set up, tooling, operation, and trouble shooting of CNC Machining. Students will earn at least one NIMS Level 1 CNC Operator credential. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 99 and Grade of C or better in 340MFGT 111-1 or 340MFGT 112-1 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 141**Manufacturing Materials & Processes**

The course will provides a general understanding of the behavior of the materials commonly used in manufacturing; the basic techniques used in processing them into useful products, the scientific theory underlying those processes, and the criteria for selecting particular tools, machines, and processes. Students will have the opportunity to earn the MSSC Manufacturing Processes and Production credential. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 142**Geometric Dimensioning and Tolerancing**

This course expands upon the student's basic knowledge of mechanical drawings by adding form and feature controls in order to meet assembly requirements at the lowest cost. The differences between traditional dimensioning and geometric dimensioning will be stressed. This course prepares students for an ASME certification in GDT. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 139 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 143

Advanced Metrology

The course focuses on the use of the Coordinate Measuring Machine (CMM) and the optical comparator to inspect machine parts to the current ASME Y 14.5 Geometric Dimensioning and Tolerancing (GD&T) standards. Lab exercises will focus on the set up and operation of precision measuring tools, including the CMM and the optical comparator, to inspect complex parts. Bore gages, attribute gages, gage blocks and pins and their use in calibration will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better or Concurrent enrollment in 340MFGT 142 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 144

Wire Electrical Discharge Machining

The course covers operations and procedures for Wire Electrical Discharge Machining systems (Wire EDM). The course content includes an overview of the Wire EDM, EDM operating processes, EDM machine functions, EDM manual part programming, and EDM application in tool rooms and production. Students may also earn the NIMS Wire EDM credential. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 140 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 145

Computer Integrated Manufacturing (CIM)

Students will study aspects of automated assembly and process control, including programmable controllers, computer assisted part programming, CAD/CAM systems computerized instrumentation and robotics. This course stresses a systems approach and how hydraulic, pneumatic and electromechanical components function together as a system. Troubleshooting automation is a major activity of this course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 291 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 146

Team Dynamics in Manufacturing

This course provides an exploration into how employees work in groups for the completion of organizational objectives. Emphasis is placed on the growing dependency on self-directed work teams in a manufacturing environment. This course equips students with the ability to manage work teams, work in teams successfully, and to obtain the results via team dynamics. In addition, impacts upon customer satisfaction are explored. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 147

Multi Axis Machining

This course covers operations and procedures for Swiss multi axis machining. The course content is inclusive of an overview of multi axis machining. Course will cover: Safety Precautions, Specifications, Operational panel functions, Functions of multi axis Swiss lathe operations, Programming, Automatic operations, Setting and Adjustment, Troubleshooting, Inspection and Maintenance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 140, or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: WR

Manufacturing Tech TC1 (340MFGT) 151

Introduction to Welding

This is a beginning welding course that teaches basic welding skills that lead to an American Welding Society qualification Gas Metal Arc Welding (GMAW or MIG). Topics include metallurgy, welding processes, welding safety, and steel designations. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 096 or Consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 152

Intermediate Welding

This is a second welding course that teaches basic welding skills that lead to an American Welding Society (AWS) qualification in Gas Tungsten Arc Welding (GTAW or TIG) and/or Shielded Metal Arc Welding (SMAW or Stick). In addition to teaching the theory and practice of GTAW and SMAW welding processes, the course including training in welding with a FANUC robot, resistance welding and torch work. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 151, or consent of Department Chairperson.

6 Laboratory hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 153

Welding I GMAW

This is a beginning welding course that teaches basic welding skills in Gas Metal Arc Welding (GMAW or MIG). Topics include metallurgy, welding processes, welding safety, and steel designations. Also discussed will be plasma cutting. Students will have the opportunity to train for and take nationally recognized certifications, such as Lincoln Electric NC3. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 154

Welding II GTAW

This is a second welding course that teaches basic welding skills that can lead to an industry certification, such as Lincoln Electric, Intro to GTAW, SMAW, and FCAW NC3 in Gas Tungsten Arc Welding (GTAW or TIG). In addition to teaching the theory and practice of GTAW, other processes will be discussed, i.e., Shielded Metal Arc Welding (SMAW), oxy-fuel, and plasma cutting. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for Math 98 and English 96 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 160**CNC II Operations and Programming**

This course introduces programming, setup and 'hands-on' operations of Computer Numerical Control (CNC) machinery. Topics include programming formats, control functions, program editing, part production, inspection, and an intro to other CNC controlled machine tools. Various projects will strengthen the students' skills in the proper use, programming, and troubleshooting of CNC machinery. Students will have the opportunity to earn nationally recognized certifications, such as Starrett Metrology NC3, Hass, and NIMS. Writing and math assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 110 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 162**Industrial 2D/3D CAD**

This course is designed for students who wish to be involved in the engineering design fields and for those interested in computer aided design. Students will be introduced to both traditional and computer aided drafting skills. The aim of CAD is to introduce students to basic information, skills, and concepts related to drafting and design. Special attention is given to: sketching, measurement, room planning, multi-view drawing, auxiliary views, working drawings, sectional views, orthographic drawings along with AutoCAD tools and commands. Current and future trends in the architectural and engineering fields will be examined. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 163**Programmable Logic Controls for Robotics**

This course is designed for students who wish to be involved with the architectural and engineering design fields and for those interested in machine control programming. Students will be introduced to the Programmable Logic Controller (PLC) which is a device that is capable of being programmed to perform control functions. The first PLC was introduced in the late 1960s to replace relay logic controls in the automotive industry. Compared to relay logic controls, the PLC's advantages include easy programming and installation, high control speed, hardware and software security, network compatibility, troubleshooting and testing convenience, and high reliability. PLCs are currently used widely in industrial and commercial environments. They can be found in almost any manufacturing facility. There are several manufacturers of PLCs. While the instruction formats may not be the same for different brands, the hardware structures and programming concepts are very similar. This course covers PLC hardware structure, input/output modules, software, and programming. PLC operation and ladder logic programs are discussed.

Grade of C or better in 340MFGT 164

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 164**Industrial Control Systems**

Students will be taught Control Systems Schemes that are used to maneuver industrial equipment. The students will utilize the CAD (learned in previous course) to create electrical, pneumatic and hydraulic control schematics. CAD lessons will also be extended by the use of Blocks and Templates to enhance drafting skill sets. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 162

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 165**Robotics Programming**

This course is designed for students who intend to operate or maintain an R30iA or newer FANUC Robot and application technicians (or engineers) who need to design robotic work cells, perform cycle time, reach ability studies, or generate robot path.

Grade of C or better in 340MFGT 164

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 170**CAD I**

This course covers part modeling, detailing and assembly design using software such as AutoCAD. The topics include the basic functions needed to use a CAD program to create parts, assemblies and production drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for Math 98 and English 96 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 171**Automated Metrology-Quality Assurance**

This course advances the knowledge and skills of metrology. The use of height gages, Optical Comparators, CMMs, and other tools used to inspect and measure manufactured parts will be taught. GD & T and SPC will be introduced. Hardness testing is covered. Provide preparation for nationally recognized certificate tests, such as Starrett Advanced Measurement Instruments (AMI), Zeiss certification prep. Writing assignments, as appropriate to the discipline, are part of this course.

Eligibility for Math 98 and English 96 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 172

Quality Systems I

This is a first course in quality systems and provides training in the use of quality systems and approaches to quality found in manufacturing. The course focuses on the planned and systematic activities implemented in a quality system so that quality requirements for a product or service fulfill the goals of the manufacturer and the customer. Students will learn the systematic measurement, comparison with a standard, monitoring of processes and an associated feedback loop that confers error prevention. Auditing, standard procedures, SPC, GD & T, ISO 9000 and quality improvement processes such as 6-Sigma will be introduced. Lean tools and problem resolution such as root cause analysis will also be introduced. Certification preparation for ASQ will be discussed. Writing and math assignments, as appropriate to the discipline, are part of this course.

Grade of C or better in 340MFGT 171 Metrology 2 Beginning Quality Assurance, or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 188

Industrial Electricity I

This is the first course in DC and AC electricity as applied to industrial circuits. The topics include: electrical safety, fundamentals of electrical circuits including Ohms Law, current, voltage, resistance, and power, single and 3-phase power, troubleshooting electrical circuits, and the basics of programmable logic controllers (PLCs). Writing assignments, as appropriate to the discipline, are a part of the course. Prepare students for industry recognized certification tests, such as Festo Electricity 1, Snap-On meters, Greenlee certs NC3.

Eligibility for Math 99 and English 96 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 189

Industrial Electricity II - Motors

This course is a study of different types of electrical motors and controls as they are applied to industrial circuits. Topics include safety issues, instrumentation, and the interpretation of ladder or line diagrams. An overview of the different types of motor controls is also provided. The students will be able to troubleshoot and repair problems associated with different motor control applications of the industry. Programmable logic control (PLC) operations is introduced. Students will be prepared to test for industry-recognized certifications, such as Festo Electricity 2, Greenlee NC3. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 188 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 191

Industrial Electricity

A study of DC and AC electricity as applied to industrial circuits. The topics include: fundamentals of circuit analysis, single and three phase circuits; and parameters, safety issues in industrial electricity, such as current, voltage and power and troubleshooting methods using test equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for Math 099 and English 096 or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 207

Introduction to MASTERCAM

This course trains students to use Mastercam software to create programs that will drive computerized machine tools (CNC machines). These "g-code" programs are generated from part geometry created in Mastercam software or in a computer-aided-drawing (CAD) software such as Solidworks. Students will learn to create part geometry, generate toolpaths, assign appropriate tools to the toolpaths, and upload their program to a CNC machine, which will precisely cut the part from metal stock. Student projects will focus on 2-D milling operations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 140 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, WR

Manufacturing Tech TC1 (340MFGT) 208

ROBOTICS II - ROBOTC INTEGRATION

This course provides students the skills needed to program/setup, teach, test, and modify industrial robot programs and vision systems, and integrate with other equipment. Robotic material handling will be introduced. Students will be prepared to earn industry recognized certificates, such as Festo NC3, FANUC, NOCTI. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 108 Robotics 1 and 340MFGT 288 Industrial Electricity 3 Programmable Logic Controls (PLC's)

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 209

Computer Aided Manufacturing (CAM) I

This is the first course in computer-aided manufacturing (CAM). The basics of CAM software are studied in this course. Students will use CAM software to create instruction sets for CNC machines. This course will focus on 2D parts. Students will prepare for industry recognized certifications, such as MasterCam certs. Writing and math assignments, as appropriate to the discipline, are included.

Grade of C or better in 340MFGT 110 or consent of Department Chairperson

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 210

Automated Fabrication I

This course covers the basics of using automated fabrication tools such as; welding robots, CNC laser cutters, CNC brake, CNC punch, CNC pipe profiler, and CNC plasma table. Workflows and tool-chains will be discussed and examined. Project planning and part development will be discussed. Also, students will use skills they have learned throughout the program on a project utilizing fabrication equipment as directed by the instructor. Students will prepare for industry recognized certifications, such as Fabricators and Manufacturers Association (FMA) certifications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 108 and 340MFGT 153 or Consent of department chair.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 211**AUTOMATED FABRICATION II**

This course focuses on advanced techniques on automated fabrication tools such as welding robots, CNC laser cutters, CNC brake, CNC punch, CNC pipe profiler, and CNC plasma table. Students will use skills learned throughout the program on a project using advanced fabrication techniques as directed by the instructor. Students will prepare for industry recognized certifications, such as Fabricators and Manufacturers Association (FMA) certifications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 210 Automated Fabrication 1.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 251**Welding III-Advanced Welding**

This is an advanced course covering welding techniques such as robotic welding, pipe welding and flux core welding in which students will further develop welding skills learned in previous classes. Leads to industry recognized certifications, such as Lincoln Electric NC3. They will also build on their pipe welding skills by welding "out of position." Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 108 and 340MFGT 109 and 340MFGT 154 or Consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 252**Welding IV - Inspection**

In this course, students are exposed to inspection principles in welding, including ultrasonic, visual, and destructive methods. Students will learn to design welding fixtures. This course will prepare students for industry recognized certifications, such as an American Welding Society (AWS) Certified Welding Inspector (CWI) certification and Lincoln Electric NC3.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 253**Pneumatics**

Study of the basic principles of pneumatics with emphasis on schematics, valves, actuators, compressors, instrumentation, applications, and troubleshooting. Course also includes the use of supplier catalogs and technical manuals. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for Math 098 and English 096 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 255**Industrial Hydraulics**

This course is a study of basic principles of hydraulics. The topics in this course include schematic interpretation, valves, actuators, compressors, line sizing, fluid viscosity and reservoir capacity. This course will also include the use of supplier catalogs and technical manuals. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for Math 098 and English 096 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 260**CNC III - Advanced Operations**

This is the 3rd course in CNC. It advances knowledge in CNC machining, such as, the use of "live tooling," linear and circular interpolation, and multi-axis machines. FANUC controls will be studied in this course. Students will use CNC machines to fabricate multiples of the same part to study tool wear and tolerance measurement. Students will prepare for industry recognized certifications, such as Hass, NIMS advanced certifications. Writing and math assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 110 and 340MFGT 160 or consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 270**CAD II Detailing**

This is the second class in computer aided drafting and develops skills in applying the proper symbols, tolerance communication and design requirements intended to manufacture or produce the design intent of the drawing package. Drawing details related to welding, piping, threads, fasteners and plant layout are described and practiced through projects and presentations. The design review process is described and consideration is given to product or design manufacturability and maintainability. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 170.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 272**QUALITY SYSTEMS II**

This is the second class in Quality Systems as related to manufacturing and production utilized by various industries. Students will be introduced to quality standards such as ISO and IATF and approaches to quality and quality improvement such as Six Sigma and Lean Manufacturing. The tools of quality improvement utilized in analyzing and resolving complex manufacturing issues will be practiced including root cause analysis, Pareto charting and process flow charting. Analysis tools such as Gauge Repeatability and Reproducibility (GRR) and Process Capability will be studied. Other quality tools such as Failure Modes and Effect Analysis and Standard Process Documentation will also be part of this course. Students will prepare for industry recognized certifications, such as ASQ quality cert. Students will work on projects to apply the tools. Writing assignments, as appropriate to the discipline, are part of the course.

Grade C or better in MFGT340 172 Quality Systems 1

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 274

Materials II - Testing and Analysis

This second course in materials will focus on materials testing and analysis, including methods such as microscopy, ultrasonic, tensile and impact testing in a lab environment. Destructive testing will include methods such as tensile and impact testing. Non-destructive (ND) testing will include methods such as microscopy, scanning electron microscope, ultrasonic testing, dye penetration testing, and hardness testing. Microscopy is a broad subject so much time will be devoted to it. In addition to the various kinds of testing, students will be introduced to failure analysis. Thermal treatment of materials will be discussed. Identification of process gasses using a mass spectrometer will be introduced. Students will prepare for industry recognized certification tests, such as, Starrett Advanced Measurement Instruments (AMI) NC3, American Welding Society (AWS) Non-Destructive (ND) testing. Writing and math assignments as appropriate to the discipline are a part of this course.

Grade of C or better in 340MFGT 105 or consent of Department Chairperson
2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 287

Maintenance Technologies I

Maintenance technicians need to be able to determine causes of problems and perform functions that prevent and eliminate machine downtime and interruptions to production. Failure analysis will be covered. In this class students will learn the methods in which maintenance departments track, monitor, and manage how maintenance work is efficiently performed, such as 5S. Maintenance management systems using preventive and predictive technologies will be studied. Vibration analysis, infrared thermography, shaft alignment, pumps, and piping will also be studied. Group activities in troubleshooting and utilization of preventive techniques will require written documentation and hands-on demonstration of correct operation of monitoring equipment as appropriate. This course will prepare students for industry recognized certifications such as Snap-On torque measurement and NIMS. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for MATH 98 and ENGLISH 96, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 288

Industrial Electricity III - PLC's I

This course covers the basic concepts and skills needed to program and use Programmable Logic Controllers (PLCs) in automated systems in industry. The topics include an overview of basic terminology, ladder logic programming, memory structure, and processing. Students will learn to use PLCs to control electro-mechanical devices, pneumatic actuators, and other industrial components, and will be introduced to sensors. Writing assignments, as appropriate to the discipline, are part of the course. Prepares students for nationally recognized certifications, such as Festo PLC's 1 and sensors NC3.

Grade of C or better in 340MFGT 188 and 340MFGT 189 or consent of Department Chairperson

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 289

INDUSTRIAL ELECTRICITY IV - PLC'S II

This is the second class in PLC programming and control systems, and students will build on prior knowledge gained in motors and controls and PLC 1 courses. Building on the previous class, students will gain hands-on knowledge of how to program, modify programs, add to existing programs, and troubleshoot existing PLC control systems. Utilizing PLC systems of increasing complexity, students will learn the components and programming of industrial equipment. Programming touch screen displays, and PLC interface with various types of external equipment such as conveyors, scales, metal detectors and sensors are discussed and demonstrated. Students will modify existing programs in a manufacturing cell or system to correct issues or add functionality. Students will prepare for industry recognized certification tests, such as Festo PLC2, Sensors NC3. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 288 Programmatic Logic Controllers (PLC) or consent of department chair.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 290

Process Technology I

This is an introductory class on process control technology. Students will focus on major parameters used in industry to measure the status of a process—temperature, pressure, level and flow, and Ph analysis. The class defines the parameters and how they are used and controlled, and the system components in those control systems. Students will learn about their application in manufacturing, and the instrumentation used to measure them. Thermocouples, pressure, level, and flow sensors will be introduced and used to measure parameters. proportional/Integral/Derivative (P. I. D.) computer control is introduced. Physical principles governing the parameters will be introduced, such as the gas laws. Writing and math assignments as appropriate to the discipline are a part of this course. Course can lead to NIMS Certification.

Eligibility for Math 98 Beginning Algebra with Geometry and English 96 Aligned Reading and Composition, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 291

Programmable Logic Controllers

This course covers the basic concepts and skills needed to program and use programmable logic controllers (PLC's) in automated systems in industry. The topics include an overview of basic terminology, ladder logic programming, memory structure, and processing. Students will use PLC's to control electro-mechanical devices, pneumatic actuators, and other industrial components. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 191 or Consent of Department Chairperson.
2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 292**Principles of Mechanisms**

This course covers the basic principles of industrial mechanisms. The motion characteristics of drive mechanisms, bearings, lubricants, cams, gears, pulleys are covered in the context of manufacturing processes and factory automation. Troubleshooting and maintenance procedures used in industrial settings are stressed throughout. Students completing the course will be prepared to earn the Manufacturing Skill Standard Council's Maintenance Awareness module of the Certified Production Technician credential. Writing assignments, as appropriate to the discipline are part of the course.

Eligibility for Math 99 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 295**Electrical Motor Controls**

A study of different types of electrical motor controls as they are applied to industrial circuits. The topics include safety issues, instrumentation, and the interpretation of line diagrams. An overview of different types of motor controls is also provided. The student will be able to troubleshoot and repair problems associated with different motor control applications of the industry. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 191 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Manufacturing Tech TC1 (340MFGT) 297**Advanced Mechanical Systems**

This course builds on the concepts elaborated in 340MFGT 292-Principles of Mechanisms. Topics include: Mechanical Drive Systems, Basic & Key Fasteners, Power Transmission Systems, V-Belt Drives, Chain Drives, Heavy Duty V-Belt Drives, V-Belt Selection and Maintenance, Lubrication Concepts, and Torque and Power Measurement. Students will also learn how to select the proper hand and power tools, ratchets, torque, wrenches, and torque settings for equipment assembly. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340MFGT 292 or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Mathematics (MATH)

Mathematics (MATH) 18**Co-Curricular for Math 118**

This course is designed to supplement General Education Math by providing foundational math skills necessary to be successful in Gen. Ed. Math. Topics may include: operations with algebraic expressions, basic geometry, order of operations involving fractions, two dimensional graphs, plotting points, equations, and using technology to enhance algebraic concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in linked MATH 118, eligibility for MATH 99 or equivalent and eligibility for ENGLISH 96 or equivalent or consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 3 times

Mathematics (MATH) 25**Co-Curricular for Math 125**

This course is designed to supplement Introductory Statistics by providing foundational math skills necessary to be successful in statistics. Topics may include: equivalent fractions, percentages, ratios, absolute value, order of operations, evaluating algebraic expressions, set theory, basic geometry, linear equations and inequalities, the coordinate plane, slope, variation, graphing linear functions, and using technology to analyze data. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in linked MATH 125, eligibility for MATH 99 or equivalent and eligibility for ENGLISH 96 or equivalent or consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 3 times

Mathematics (MATH) 40**Co-Curricular for Math 140**

This course is designed to supplement College Algebra by providing foundational math skills necessary to be successful in college algebra. Topics may include: operations with algebraic expressions, set theory, basic geometry, linear equations and inequalities, absolute value equations, the coordinate plane, slope, variation, graphing linear and quadratic functions, complex numbers, and using technology to enhance algebraic concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Must be taken with corresponding MATH 140 course.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Mathematics (MATH) 90**Mathematical Literacy**

Mathematical Literacy is designed to enable students to develop conceptual understanding and problem solving competence as preparation for quantitative and statistical reasoning level math. This course integrates numeracy; proportional, algebraic & statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Emphasis is placed on modeling and problem solving, with techniques and manipulations covered in context. Throughout the course, Math success content will be integrated with mathematical topics. Credit earned does not count toward any degree, nor does it transfer.

Completion of FS MATH 3001,3002 with a grade of S, or ALEKS math score of 20+, or GED MATH score of 145+, or HiSET MATH score of 8+ and Eligibility for ENGLISH 96, or consent of dept.

6 Lecture hours. 6 Credit Hours.

Offered At: MX, OH, TR, WR

Mathematics (MATH) 98

Beginning Algebra with Geometry

Course Description: Algebra of real numbers, integer exponents, polynomial operations, factoring, rational and complex expressions, linear equations, word problems, quadratic equations and graphical and algebraic solutions of simultaneous linear equations. Writing assignments, as appropriate to the discipline, are part of the course. *Completion of FS MATH 3001,3002 with a grade of S, or ALEKS math score of 20+ or GED MATH of 145+, or HiSET MATH of 8+, or consent of dept.*
4 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR

Mathematics (MATH) 99

Intermediate Algebra with Geometry

Algebraic operations involving rational exponents, including scientific notation. Algebraic expressions, including radical and rational expressions. Solutions of quadratic, quadratic in form, rational, radical, and absolute value equations. Solutions of compound linear inequalities. Solutions and manipulations of literal equations of literal equations. Graphical and algebraic solutions of systems of linear equations in two and three variables; graphical solutions to systems of linear inequalities. Graphs of linear and quadratic equations. Geometry topics: perimeter, area of geometric figures, triangles, rectangles, and circles; volume of sphere, cylinder and pyramid. Pythagorean Theorem and distance formula. Similarity and proportions. Applications of problem-solving skills are emphasized throughout the course. Students should be exposed to graphing calculator technology and/or computer algebra systems. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 98 with a C or better, or completion of FS MATH 3003,3004 with grade of S, or ALEKS score of 30+, or GED MATH of 150+, or HiSET MATH of 10+, or Consent of dept.
5 Lecture hours. 5 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR

Mathematics (MATH) 100

Introduction to College Mathematics

This course will provide students with an introduction to college mathematics in two distinct ways. First, students will be exposed to foundational mathematical content that will put them in a position to be successful in their future mathematics courses. The four main topics of the course are numerical literacy, algebraic literacy, math modeling/ functions, and graphing. Second, the course will provide students with a space to examine their perceptions, habits, and past experiences in mathematics in an effort to positively influence their future college math coursework and their mathematical identities. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of FS MATH 3001,3002 with a grade of S, or ALEKS math score of 20+ or GED MATH of 145+, or HiSET MATH of 8+, or consent of dept.
6 Lecture hours. 6 Credit Hours.
Offered At: HW

Mathematics (MATH) 107

Math For Technicians I

Designed to provide mathematical tools for students in terminal technical curricula. Emphasis is on practical aspects of mathematics and less upon the theoretical. Topics include elementary algebra operations, simultaneous and quadratic equations, exponents and radicals, logarithms, introduction to trigonometry, vectors, and use of calculator. Writing assignments, as appropriate to the discipline, are part of the course.
1-5 Lecture Hours. 1-5 Credit Hours.
Offered At: KK, MX, OH

Mathematics (MATH) 108

Math For Technicians II

Continuation of Mathematics 107. Topics include trigonometric functions, solution of oblique triangles, vectors, Cartesian and polar coordinate systems, graphs of functions and basics of differential and integral calculus. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in MATH 107 or Placement Test, or Consent of Department Chairperson.
3-5 Lecture Hours. 3-5 Credit Hours.
Offered At: KK

Mathematics (MATH) 118

General Education Math

This course is designed to fulfill general education requirements. It is not designed as a prerequisite for any other college mathematics course. This course focuses on mathematical reasoning and solving of real-life problems. Three or four topics are to be studied in depth, with at least three chosen from the following list: counting techniques and probability, game theory, geometry, graph theory, linear programming, logic and set theory, mathematical modeling, mathematics of finance, and statistics. Applications involving problem-solving skills are emphasized throughout the course. Technology is an integral part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

A minimum grade of 'C' in one of the following courses: MATH 90 or MATH 99 or MATH 100; or a minimum grade of C in MATH 98 and concurrent or successful completion of MATH 18; or appropriate score on Placement Test; or Consent of Department Chair.

4 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR
IAI: M1 904 GE: Mathematics

Mathematics (MATH) 121

Math For Elementary Teachers I

This course focuses on mathematical reasoning and problem solving. Topics include operations with rational and irrational numbers, sets, functions, logic, numeration systems and number theory, and solution of linear equations in one variable. Applications are included throughout the course. Problem-solving with the use of calculators and computers is emphasized throughout the course. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 99 with a C or better, or ALEKS 46+, or GED MATH 155+, or HiSET MATH 11+, or ACT Math 21+, or SAT Math 500+, or Consent of department.

4 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR
GE: Mathematics

Mathematics (MATH) 122**Math For Elementary Teachers II**

This course is a continuation of Mathematics 121. Topics include probability and statistics, lines, angles, polygons, Pythagorean Theorem, circles, solids, areas, volume, and measurements. Applications are included throughout the course. Problem-solving with the use of computers is emphasized throughout the course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 121, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: M1 903 **GE:** Mathematics

Mathematics (MATH) 125**Introductory Statistics**

This course focuses on mathematical reasoning and the solving of real-life problems. Topics addressed include: descriptive statistics (measures of center, variation, and position, and frequency distributions); basic probability theory (counting techniques, sample spaces, probability laws); probability distributions (normal and binomial); statistical inference, which includes estimation, hypothesis testing (z-test, t-test, and chi-square test), errors, and correlation/regression. Tools such as graphing calculators or computers are an integral part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

A minimum grade of 'C' in one of the following courses: MATH 90 or MATH 99 or MATH 100; or a minimum grade of C in MATH 98 and concurrent or successful completion of MATH 25; or appropriate score on Placement Test; or Consent of Department Chair.

4 Lecture Hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: BUS 901, M1 902 **GE:** Mathematics

Mathematics (MATH) 126**Algebra for Middle School Teachers**

This course focuses on the concept of functions in college algebra. It is designed to meet the needs of middle school teachers in accordance to the National Council of Teachers of Mathematics Standards for Teaching Mathematics. Topics include basic definition of different functions and their properties. The following algebraic concepts will be explored: linear functions, systems of linear equations, quadratic functions, non-linear data, combinatorics, probability, exponential functions, log functions, square root functions, absolute value, and trigonometry as periodic functions. Problem solving using calculators, CBLs, and computers is emphasized throughout the course. Writing assignments as appropriate to the discipline are part of the course.

Grade of C or better in MATH 121 and MATH 122.

4 Lecture hours. 4 Credit Hours.

Offered At: TR, WR

Mathematics (MATH) 127**Geometry/Trigonometry for Middle School Teachers**

This course focuses on the concepts of plane and solid geometry and trigonometry. It is designed to meet the needs of a middle school teacher in accordance with the National Council of Teachers of Mathematics Standard and the Professional Standards for Teaching Mathematics. Topics include basic definitions and properties of plane and solid figures, congruence, similarity, constructions, Pythagorean Theorem, measurements, transformations, the unit circle and right triangle trigonometry. Problem solving with the use of calculators and computers is emphasized throughout the course. Writing assignments as appropriate to the discipline are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: TR, WR

GE: Mathematics

Mathematics (MATH) 140**College Algebra**

The focus of this course is on the concept of functions and their characteristics. These consist of polynomial, rational, radical, exponential and logarithmic functions, inverse functions, theory of equations and solving inequalities. The course also includes equations of circles, systems of linear equations, systems of non-linear equations, and matrices useful in solving linear systems. Applications involving problem-solving skills are emphasized throughout the course. Technology is an integral part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 99 or higher with a C or better, or ALEKS 46+, or GED MATH 160+, or HiSET MATH 13+, or ACT Math 21+, or SAT Math 530+, or Consent of department.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

GE: Mathematics

Mathematics (MATH) 141**Plane Trigonometry**

Definition of trigonometric functions, graphs of trigonometric functions and their universes. Applications to triangles, law of sines and cosines, trigonometric identities, equations, vectors and applications. Complex numbers in trigonometric form and DeMoivre's Theorem. Calculators will be used. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ and College ALGEBRA 51+ and TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

GE: Mathematics

Mathematics (MATH) 143

Pre Calculus

Pre-calculus emphasizes the notion of function as a unifying concepts for the topics of college algebra and an extension of the topics of trigonometry. The following families of functions and their characteristics are examined within this course: polynomial functions; rational functions; exponential and logarithmic functions; and trigonometric functions. Writing assignments, as appropriate to the discipline, are part of the course. Applications involving problem-solving skills will be emphasized throughout the course.

Completion of MATH 99 with a C or better, or ALEKS 46+, or GED MATH 160+, or HiSET 13+, or ACT Math 21+, or SAT Math 530+, or Consent of department.

6 Lecture hours. 6 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Mathematics (MATH) 144

Finite Mathematics

Logic, sets, partitions, counting, probability rules and Bayes Theorem, vectors and matrices, and linear programming. Includes applications to behavioral sciences and to business and administration problems. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 140 with a C or better, ALEKS math score of 61+, ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

IAI: M1 906 GE: Mathematics

Mathematics (MATH) 146

Discrete Mathematics

Introduction to mathematical analysis of finite collections and mathematical foundations of sequential machines, digital logic circuits, data structures, and algorithms. Includes sets, counting, recursion, graph theory, nets, automata, and formal grammars and languages. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ and College ALGEBRA 51+ and TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: CS 915, M1 905 GE: Mathematics

Mathematics (MATH) 202

Number Concepts/Mid-School Teaching

This course has been designed keeping in mind both the Illinois Professional Content Standards for Teaching (Mathematics) and the content necessary to prepare students to be middle school mathematics and science teachers. A wide range of topics across number of theory and measurement will give the students a grasp of the depth and breadth of mathematics outside of the traditional course structure. Problem solving, estimation, measurements, and construction of simple theories of numbers will be treated with and without the use of technology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (MATH 113, or MATH 126, or MATH 140, or MATH 143).

4 Lecture hours. 4 Credit Hours.

Offered At: TR, WR

Mathematics (MATH) 204

Calculus For Business & Social Sciences

This course provides an introduction to differential and integral calculus with specific applications to business and social science. The use of technology (e.g., graphing calculator, an algebraic system, etc.) and writing as appropriate to the discipline will be emphasized in this course.

Completion of MATH 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ and College ALGEBRA 51+ and TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department.

4-5 Lecture Hours. 4-5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: M1 900-B GE: Mathematics

Mathematics (MATH) 207

Calculus & Analytic Geometry I

Topics include (but are not limited to) the following: limits and continuity of functions; definition of derivative, rate of change, slope; derivatives of polynomial, rational, trigonometric functions, inverse trigonometric functions, exponential, and logarithmic functions; the chain rule; implicit differentiation; applications of the derivative; indeterminate forms and L'Hôpital's rules; approximation by differentials; higher-order derivatives; Rolle's Theorem and mean value theorem; antiderivatives and the definite integral including the substitution method; the fundamental theorem of calculus. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of MATH 140, 141 with a C or better, or completion of MATH 143 with a C or better, or ALEKS score of 76+, or COMPASS Algebra 43+ and College ALG. 51+ and TRIG. 51+, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16)

5 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: M1 900-1, MTH 901 GE: Mathematics

Mathematics (MATH) 208

Calculus & Analytic Geometry II

Topics include (but are not limited to) the following: applications of the integral; area, physics applications, a rigorous analytic approach to the definitions and properties of logarithmic, exponential functions, and introduction of hyperbolic functions; techniques of integration, including numerical methods, integration by parts, trigonometric substitution, and partial fractions; improper integrals; sequences and series, convergence tests, Taylor and Maclaurin series; parametric equations; polar coordinates and equations of curves, Cartesian, and polar equations of conic sections. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 207, or Consent of Department Chairperson.

5 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: M1 900-2, MTH 902 GE: Mathematics

Mathematics (MATH) 209**Calculus & Analytic Geometry III**

Topics include (but are not limited to) the following: geometry of the three-dimensional space; equations and graphs of quadratic surfaces; vectors in 2 and 3 dimensions, vector operations; lines and planes in space; calculus of vector valued functions, curvature of curves, Frenet frame vectors, planes, and lines; functions of more than one variable, partial derivatives; the differential, directional derivatives, gradients; extreme values and saddle points of functions of two variables; double and triple integrals, evaluation and applications; using substitution methods that include cylindrical, spherical coordinates, as well as more general transformations. Evaluation of double, and triple integration; line integrals, and their applications; fundamental theorem of line integrals; Green's theorem; surface integrals, and their applications; Stokes' theorem; divergence theorem. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 208, or Consent of Department Chairperson.

5 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: M1 900-3, MTH 903 **GE:** Mathematics

Mathematics (MATH) 210**Differential Equations**

A first course in ordinary differential equations: solutions of first order and first degree differential equations, linear differential equations with constant co-efficients. Linear differential equations of higher order, special differential equations of second order and differential equations of first order but not of first degree. Numerical methods, series solutions and applications included. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 208, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: MTH 911, MTH 912

Mathematics (MATH) 212**Linear Algebra**

Introduction to linear algebra for students who have studied some calculus; computations with vectors and matrices will be emphasized, proofs also will be examined; major topics include systems of linear equations and matrices, determinants, vectors in Euclidean space, abstract vector spaces, linear mappings, computation of eigenvalues and eigenvectors. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 208, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: MTH 911

Mathematics (MATH) 216**Statistics For Business Majors**

The basic concepts of statistical analysis used in business decision-making, including probability and how uncertainty is dealt with in real life. The student will analyze and work out simple problems and should be able to recognize applications of different statistical techniques, interpret the results of analysis and recognize instances in which statistical techniques have been misused. The following concepts and statistical techniques are included: measure of central tendency and variability, random variable and probability distributions, estimation, tests of hypotheses, chi square tests, linear regression and correlations and one-way analysis of variance. Applications are included throughout the course. Problem solving with the use of calculators and computers is emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 140, Placement Test or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, TR

IAI: BUS 901

Mathematics (MATH) 299**Special Topics Mathematics**

Special Topics in Mathematics will be discussed along with appropriate computer and calculator activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Each special topic course will have a sub-title. Students can take courses with different sub-titles and receive credit for each. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-6 Lecture Hours. 1-6 Credit Hours.

Offered At: DA, HW, KK, OH, WR

Repeatable: Yes, up to 4 times

Media Communication (MEDIACM)

Media Communication (MEDIACM) 102**Announcing**

Develops the ability to transform written copy or script into voice performance emphasizing copy preparation, breath control, pronunciation, articulation, use of full dynamic range, microphone techniques, and hand signals. A variety of copy, including commercials, news and public service announcements will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

IAI: MC 918

Media Communication (MEDIACM) 145

Intro To Media Communication

A survey of the history, technology, structure and operation of the telecommunications industry. Topics include advertising, audience measurement, network television, radio station operations, cable television, broadcast regulations and licensure, satellite communications, pod casting, and careers in media communications. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

IAI: MC 911

Media Communication (MEDIACM) 190

Language, Culture and Media

Television, radio, print and film reflect and transmit culture through language and images. Using these media as a context, this course will examine a variety of depictions of culture and language and will evaluate perceptions about language and culture within various segments of society. Students will be encouraged to think critically about language choices and to analyze the impact of culture and media on those choices. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 203

Media Writing

Creation and preparation of scripts for radio and television programs and segments which include news copy, commercial copy, public service announcements. Special attention will be paid to correct format and form. Word processing skills will be utilized in this course. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

IAI: MC 917

Media Communication (MEDIACM) 221

Radio Production I

This course is designed as an introduction to the audio control system and training in the operation of related equipment. Emphasis will be placed on how the various components integrate into a system. Demonstration of expertise through class exercises and laboratory projects is required. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

IAI: MC 915

Media Communication (MEDIACM) 222

Radio Production II

Review the audio control system and its various equipment components. Emphasis will be placed upon creating, producing, and directing service announcements, news and drama which may be utilized by Kennedy-King's own WKKC-FM. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 221, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 223

Advanced Broadcast Writing

As a direct continuation of course MEDIACM 203-Media Writing. This class provides experience in writing longer scripts, for various types of media outlets such as television, radio, and the Internet. With an emphasis on content, clarity and flow. Basic script formats, terminology, and writing techniques for documentaries, commercials, public service announcements, promos, as well as entertainment and fictional programs. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 203 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 231

TV Production I

Introduction to the television production system and training in the operation of the video and audio equipment necessary to produce programming. Emphasis will be how the various components integrate into a system. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

IAI: MC 916

Media Communication (MEDIACM) 232

TV Production II

Continuation in the development of expertise in the use of various audio and video components. Television production projects will require creating treatments, storyboards, and scripts, for the production of a final program. Emphasis on integration of equipment, production personnel, and script to create finished television production. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 231, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 234**Producing for Television**

An examination of the vital role of the television producer, focusing on the three areas of production: pre-production, production, and post production. Emphasis on the importance of planning, show creation, budgeting, scheduling, management, team building, field producing, and delivery. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 223 and MEDIACM 231 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 240**Minicam & Videotape Editing**

Evaluate, set-up, light, mike, and properly record in a single-camera remote environment for desired production results. Learn to log and electronically computer edit recorded footage into professional programs and program segments. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 245**Advanced Production Workshop**

Learn the steps necessary to develop a program concept or idea into a completed radio and/or television program. Emphasis is placed upon the coordinating of technical, budgetary, personnel, scheduling, and equipment aspects of achieving effective productions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 222 or MEDIACM 232 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 250**Mini-Cam & Video Editing II**

As a direct continuation of Media Communications 240, this class provides instruction in advanced video camera recording and digital editing techniques. Students are introduced to multiple industry standard editing software programs, as well as motion graphics. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 240 or consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 252**Audio Engineering I**

This course is designed to introduce students to basic audio engineering practices for film, video production, sound broadcasting, advertising, and live events. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 222 or MEDIACM 232 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 265**Digital Media Entrepreneurship**

This course introduces students to the fundamentals of entrepreneurship and changing media industry business models. Students are exposed to best practices for developing viable concepts, financial management and controlling the organization. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MEDIACM 145 or Consent of Department Chairperson.

2.5 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 271**Intro to Interactive Media**

A practical introduction to interactive media, otherwise known as the Internet. While in this course, students will become better acquainted with new technologies and methods for creating participatory media, while making it available through nontraditional outlets. Students will develop new ideas for assisting in this tradition, with both the Internet, as well as the traditional broadcast space. Class topics will also cover the technologies that go hand in hand with both the creation and utilization of interactive "new" media. This course will emphasize group projects. Students will be introduced to the unique issues encountered while producing for interactive media, such as streaming, bandwidth, compression, memory allocation, and optimization. Various distribution media will be examined including CD-ROM, DVD, and the Internet. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and Grade of C or better in (MEDIACM 145 and CIS 120), or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 280**Advanced Editing, Graphics, and Animation**

A direct continuation of Media Communications 250, this course introduces students to motion graphics, visual effects, and animation using industry standard software for film and video projects.

Grade of C or better in MEDIACM 250 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 295**Practicum Internship**

Planned and supervised training which allows the application of theory to actual practice prepares a student for working independently toward specific career objectives. The internship/practicum generally occurs after the student has completed eighteen MEDIACM credit hours. It takes place at a regular worksite and instruction/supervision is provided by an employee at the worksite. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Media Communication (MEDIACM) 298

Audio, Video or Internet Capstone

After satisfactory completion of all Media Communications courses, this course is intended to provide students with the opportunity to integrate their television, radio, and internet skills by preparing an actual portfolio suitable for employment in the media industry. With an emphasis on quality, the Capstone portfolio will feature a variety of product projects to showcase specific, industry related skills obtained while enrolled in the Media Communications program at Kennedy-King College. In addition, students will create a marketing package for themselves, including a resume, business cards, interactive website, and audition/resume disk. Student must obtain consent of Program Director to take this course concurrently with their internship course, MEDIACM 250. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Medical Assisting (MEDASST)

Medical Assisting (MEDASST) 102

Medical Law & Ethics

This course considers the standards of ethical conduct toward patients, colleagues and other members of the medical team. Legal responsibility, professional liability, licensing, contracts and other applications of law in medicine will be included. This course discusses what medical career students should know to give competent, compassionate care to patients that is within acceptable legal and ethical boundaries. It can also serve as a guide to help the students resolve the many legal and ethical questions that they may find to expect. Pertinent legal cases, anecdotes, and sidebars related to health careers are presented in this course as well as how legislation affects health care. Writing assignments, as appropriate to discipline, are in part of the course.

Acceptance into the Medical Assisting program.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 103

Medical Assisting Clinical Procedures I

This course is designed to introduce students to basic clinical procedures in the medical office assisting field. Students will learn to perform basic skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory as learning experience. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Medical Assisting Program.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 104

Medical Assisting Clinical Procedures II

This course is designed to build upon the knowledge and skills developed in Clinical I. Students will learn to perform clinical skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory learning experiences. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Medical Assisting Program.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 105

Medical Careers Professional Development

This course explores professional issues that affect the medical assistant. Current trends in education, certification, and employment will be discussed and their impact on the practicing medical assistant will be emphasized. Communication skills that will enhance the performance of the medical assistant will also be reviewed. Employment seeking techniques such as resume preparation and interviewing skills will be included. Writing assignments, as appropriate to the discipline are part of the course.

Acceptance into the Medical Assisting program.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 106

Administrative Procedures

This course will explore administrative and front office responsibilities in the physician's practice or clinical setting. Emphasis is placed on clerical functions, including verbal and written communication, patient reception, and records management. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Medical Assisting program.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 107

Pharmacology

This course introduces the students to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinical settings. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Medical Assisting Program.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 108

Fundamentals of Ambulatory Billing and Coding

This course covers performance of coding procedures; application of third party and managed care policies, procedures, and guidelines, including obtaining referrals and pre-certifications; billing for services, including insurance claim forms and use of a physician's fee schedule. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Medical Assisting Program.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Medical Assisting (MEDASST) 109

Medical Assisting Practicum

This course requires medical assisting students to integrate and apply knowledge and skills from all previous medical assisting courses in an actual ambulatory health care setting. Students will be assigned to the clinical sites. Writing assignments, as appropriate to the discipline, are part of the course.

Current CPR certification and completion of all coursework in the Medical Assisting Program including HEALTH 102 and 105, MEDASST 103,104,106,107 and 108.

15 Laboratory hours. 3 Credit Hours.

Offered At: MX

Mental Health (MENHLTH)

Mental Health (MENHLTH) 223

Intro To Addictions Studies

Includes treatment strategies, perspectives and understanding of the addiction process and its effects upon the individual, the family, employers, and society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, WR

Mental Health (MENHLTH) 224

Principles and Practices of Addiction Studies

Basic clinical skills in alcoholism and substance abuse field; strategies in working with denial and resistance; diagnostic and assessment skills; history-taking; individual, family and group treatment modalities utilized with the alcoholic and/or substance abuser; termination process; aftercare and referral process. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MENHLTH 223, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

Mental Health (MENHLTH) 228

Principles of Mental Health Practices

Mental health, the settings in which mental health problems are treated, and common types of mental health problems; review of treatment strategies and methods of intervention. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, MENHLTH 223, 224, 230,231, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Mental Health (MENHLTH) 229

Practicum In Addictions Treatment

Students work 20 hours per week in a mental health setting in the community under supervision of mental health professionals and participate in a two-hour seminar once a week, relating field experiences to mental health theory. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MENHLTH 223, 224, 230, 231 or Consent of Department Chairperson. Must attend a mandatory orientation and prior acceptance of program and secure an approved practicum site before the first day of class.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: HW, KK, WR

Mental Health (MENHLTH) 230

Addictions & Family Treatment

Study of affects of alcoholism and substance abuse of the family; how spouse, children and extended family react to problematic drinking or drug abuse; examination of treatment including self-help groups. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (MENHLTH 223 and MENHLTH 224), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

Mental Health (MENHLTH) 231

Addictions Treatment of Special Populations

Application of needs of special treatment populations, diagnosis and treatment of adolescent and elderly clients, sexual issues; patient education, prevention strategies, spirituality, relapse prevention and employee assistance programming, AIDS and eating disorders. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (MENHLTH 223 and MENHLTH 224 and MENHLTH 230), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

Mental Health (MENHLTH) 232

CADC Examination Review

Basic clinical skills in alcoholism and substance abuse; strategies in test taking, overview of core functions and competencies and overview and practice of State examination. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MENHLTH 230 and 231 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Microbiology (MCROBIO)

Microbiology (MCROBIO) 233

General Microbiology

Morphology, physiology, classification and culture of bacteria and related organisms. The role of bacteria related to human welfare and to plants and animals. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated eight credit hours will be counted towards graduation.

Grade of C or better in BIOLOGY 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Microbiology (MCROBIO) 234

Applied Microbiology

A sequence course to a second semester fundamentals course in microbiology. This course is designed for students majoring in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MCROBIO 233.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: TR

Microbiology (MCROBIO) 236

Applied & Environmental Microbiology

The goal of this course is to learn about the use of microorganisms (bacteria, archaeobacteria, protists, fungi, and viruses) in the population of pharmaceuticals, foods, and industrial chemicals, as well as in applications such as bioremediation. Specifically, genetic engineering and biotechnology will be discussed. Secondly, interaction of microorganisms with other organisms and the physical environmental will be explored. In particular, microbial ecology, biogeochemical cycles, and public health microbiology will be addressed. Field sampling methods and analytical techniques (including molecular biology methods) will be utilized. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: OH

Mortuary Science (MOR SCI)

Mortuary Science (MOR SCI) 102

Microbiology For Embalmers

The basic principles of microbiology related to the principles of funeral service education, especially as they pertain to embalming sanitation, morgue disinfection, public health, and embalming practice. The development and use of personal, professional and community hygiene and sanitation is discussed. The methods of transmission of infectious diseases, control procedures of these diseases with special emphasis on protection to the embalmer are described to differentiate between indigenous microorganisms and pathogens and/or opportunists causing diseases commonly associated with the human host and dead human remains. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 120, BIOLOGY 121 and HLH SCI 102.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 103

Chemistry For Embalmers

The basic principles of chemistry related to the principles of funeral service education. Especially stressed are the principles and precautions involved in the sanitation and disinfection of dead human remains, focusing strictly on chemistry and embalming chemicals, modifying agents, supplemental fluids and autopsy compounds. Potentially harmful chemicals used in the preparation room and their regulations are emphasized along with the essential characteristics of fermentation, and putrefaction in the area of the chemistry of decomposition of dead human remains. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 120, BIOLOGY 121 and HLH SCI 102.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 104

Pathology For Embalmers

This course in Pathology is designed to study the pathological conditions of the human body in its postmortem state and how those pathological conditions affect various parts of the body, with particular emphasis on those conditions which relate to or affect the embalming or restorative art process. Pathological conditions discussed will dictate the embalming procedures, methods and chemicals for preservation required by the embalmer. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 120, BIOLOGY 121 and HLH SCI 102.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 108

Accounting In Funeral Service

An introduction to basic principles of accounting theory. Applications to funeral home operations are made throughout financial statements and their analysis, worksheets, journalizing, receivables, payables, deferrals and accruals. Inventory cost models for funeral merchandise, is covered along with depreciation models and payroll accounting. Accounting proficiencies will enable the understanding of funeral service records and the funeral directors guidelines of funeral arrangements as prescribed by Federal Trade Commission Regulations rule on funeral industry practices. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Mortuary Science program/plan 257.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 109

Sociology For Funeral Service

Sociology studies family structures, social structures, and the factors of change within those groups. This course relates those factors of change to the impacts of death and the relationship of the role of the funeral director in providing closure through funeral rites, ceremonies, customs, religion and rituals. Emphasis is placed on the cultural requirements and diversities of each family the funeral director is privileged to serve and an awareness of the changing social factors, which affect American Funeral Rites and the families served. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Mortuary Science program/plan 257.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 111

History of Funeral Service

Survey of current expectations in American Funeral Practice with emphasis on task and personality of the practitioner. Trends and issues in embalming practice from ancient Egyptian burial rites to current American practices and foreign procedures. Blackboard (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the Mortuary Science program/plan 257.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 203

Funeral Directing

This course recognizes the wide variation of funeral customs across the country, attempting to point out some general practices that contain minimal geographic and cultural differences, including general information on notification of death, transfer of remains, conduct of the arrangement conference, pre-funded/preplanned funerals. Included is the cross-section of religious funeral practices, fraternal and military funerals, shipment of remains, cremation and aftercare. Guidelines for the course are designed to introduce the Federal Trade Commission and the Trade Regulation Rule on Funeral Industry Practices. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MOR SCI 111.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

HD Course

Mortuary Science (MOR SCI) 204**Mortuary And Business Law**

The student is introduced to the sources of law, the legal status of the dead human body. The funeral directors responsibilities are examined as practicing professionals in relationship to that of the final disposition. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of two semesters in the Mortuary Science program/plan 257.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 207**Restorative Art**

Study of techniques employed to bring about restoration of a deceased human being to as near a normal appearance as possible. The subject area for restorative art is designed to introduce the techniques and importance of creating an acceptable appearance of the deceased for the benefit of the surviving family members. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

BIOLOGY 226 recommended.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 209**Funeral Management & Merchandise**

This course covers the construction and features caskets, outer burial containers, and other funeral related products such as cemetery headstones and markers. Merchandising examines methods of purchasing, pricing, display, and sale of funeral merchandise as well as services. Emphasis are placed on the component parts of funeral merchandise, including materials used, component part styles, finishes, dimensions/functions and pricing methods. General management techniques and theory as they relate to specific funeral home operational procedures and practices are emphasized. Management examines specific areas of funeral service practice and the managerial guidelines for the contemporary concepts of funeral service management as they relate to client families and community, staff personnel, and professional associates and associations/agencies. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

MOR SCI 203.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 210**Advance Mortuary Science Practice/Ethics**

A survey of topics presented by the Director of the Mortuary Science program/plan, providing an overview of various tasks and subjects a director will encounter in the role of a practitioner. Legal and Moral Ethics are covered. An overview of the curriculum and the practical application of theory as it relates to the ethnical practice of mortuary science. Exit examinations/core competency capstone course. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 211**Psychology Of Funeral Service**

The underlying value and relevance of this course for preparing the funeral director is that the symbolic and ritualistic aspects of the funeral have a significant impact upon the emotional experience of the bereaved. Emphasis on the grief process and its variations across individuals as influenced by psychological factors aids the funeral director in becoming a facilitating agent for effective mourning through personal interactions as well as the design and implementation of the funeral service. This course will also prepare the funeral director to know when to make a referral for mental health services. Issues relating to children and death and particular theories/theorist are also stressed. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into program/plan 257 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 213**Embalming Theory I**

The involvement of all aspects of embalming theory. From the evaluation of features to the case analysis, embalming reports and instrumentation. A study of phenomenon of death in the human body is detailed.

Theory I includes the study of government regulations applicable to the embalming process. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MOR SCI 102, 103, 104.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 214**Embalming Laboratory**

Practical application of embalming techniques and laboratory procedures of the deceased human body. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

MOR SCI 102, 207, 213, 215, 216 and BIOLOGY 226, 227, 130, 131.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 215**Restorative Art Laboratory**

Applied experience in restoring damaged human remains to achieve a normal life appearance of the deceased. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MOR SCI 207, BIOLOGY 226 and BIOLOGY 227.

4 Laboratory hours. 2 Credit Hours.

Offered At: MX

Mortuary Science (MOR SCI) 216

Embalming Theory II

Course examines the difficulties encountered by the embalmer due to disease and pathological changes of the deceased, examination of preparation of autopsied cases as well as the procedures for handling and embalming more difficult cases. Theory II includes the study of special treatments and techniques for different conditions encountered in the dead human body. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MOR SCI 213, BIOLOGY 226, 227, 130, 131.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Music (MUSIC)

Music (MUSIC) 101

Fundamentals of Music Theory

Introduction to music theory and application: rhythm, meter, scales, intervals, triads and musical terminology; development of aural and keyboard skills. Writing assignments, as appropriate to the discipline, are part of the course. No credit toward graduation for music majors.

Eligibility for MATH 99 or Higher or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

GE: Fine Arts

Music (MUSIC) 102

Music Theory I

Realization of figured and unfigured bases and harmonization of melodies. Triads and inversions. Harmonic analysis. Keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 101, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR, WR

Music (MUSIC) 103

Music Theory II

Realization of figured and unfigured bass and harmonization of melodies. Chords of the seventh and ninth sequences, diatonic modulation. Harmonic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 105

Group Piano I

Class instruction in beginning piano techniques through study in small groups. Writing assignments, as appropriate to the discipline, are part of the course. 1 lecture and 2 lab hours per week.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Music (MUSIC) 106

Group Piano II

Continuation of Music 105. Minimum of six hours practice per week required for credit. Students majoring in music are required to take two semesters of study with a private instructor following this course. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 105, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA, HW, KK, OH, WR

Music (MUSIC) 107

Jazz Improvisation Pt I

Fundamentals of improvisation; performing improvised solos, both on standard chord changes and original compositions. Topics covered include: ear training, II-V-I progressions, substitutes of the II-V-I progression, simple blues, bebop scales, intervals and random chord exercises which lead to altered dominants and more contemporary concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 101 and concurrent enrollment in MUSIC 135, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 108

Jazz Improvisation Pt II

Further study of improvisation: performing improvised solos on standard chord changes and original compositions. The covered topics include altered dominant seventh chords, the 12 tone row, advanced blues, rhythm changes, turnarounds, learning tunes by ear, and improvising on them, extensions, substitute chords, modal harmony, free improvisation, note positions and other scales. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 107 and concurrent enrollment in MUSIC 135, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 109

Jazz/Pop Ensemble

Rehearsal and performance of songs from jazz and popular music repertoires. In addition, the course will cover the skills needed as a professional musician. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 110

Jazz/Pop Ensemble: Blues Emphasis

Rehearsal and performance of songs in the blues genre. In addition, the course will cover the skills needed to succeed as a professional musician. Repeatable for credit up to four credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK, WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 111**Aural & Keyboard Skills I**

Sight singing, ear training and rhythmic dictation with keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 101, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, OH, WR

Music (MUSIC) 112**Aural & Keyboard Skills II**

Continuation of Music 111. Advanced ear training and sight singing, melodic dictation and more complex harmonic structures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 111, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, OH, WR

Music (MUSIC) 113**String Class**

Class instruction in fundamentals of violin, viola, violoncello and string bass; principles of bow control and elementary left hand technique; each student required to demonstrate techniques and develop performing technique; readings to be assigned. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: WR

Music (MUSIC) 114**Guitar Class**

Programmed, audio-visual music course, emphasizes the development of guitar playing skills. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 119**Percussion Class**

Class instruction in percussion instruments; each student required to demonstrate techniques and develop performing ability; readings to be assigned. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 120**Introduction to Music Business**

Overview of the music business including recording, publishing, management, marketing and other related topics. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Music (MUSIC) 121**Introduction To Music**

Elements, structure, listening, literature, aesthetic perspective; concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: F1 900 **GE:** Fine Arts

Music (MUSIC) 122**Perspectives In Jazz**

Introduction to jazz, its historical background and its development in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH

Music (MUSIC) 124**Trends In Mod Amer Music**

Exploration of what has been happening in this century in American music; includes review of social conditions that have nourished these trends and discussion of folk, blues, jazz, country and western, rock, musical theater, and classical music. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: F1 904 **GE:** Fine Arts

Music (MUSIC) 131**Chorus**

This course trains students in vocal performance, familiarizes them with choral literature, and provides opportunities for public performances and musical performances for college functions. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

1 Lecture Hours. 0.5-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: HW, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 133**Concert Band**

Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Consent of Department Chairperson.

0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 134

Orchestra

Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Consent of Department Chairperson.

0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 135

Instrumental Ensembles

String quartets, brass ensembles, jazz workshops, stage band. Writing assignments, as appropriate to the discipline, are part of the course.

Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Consent of Department Chairperson.

0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: HW, WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 136

Vocal Ensembles

Madrigal groups, trios, quartets, etc. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Consent of Department Chairperson.

0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: HW, TR, WR

Repeatable: Yes, up to 4 times

Music (MUSIC) 150

Class Voice I

Group instruction in fundamentals of singing, voice production, breathing, diction, vocalizing, and technical exercises; elementary song literature as student progresses. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, OH, WR

Music (MUSIC) 151

Class Voice II

Continued development of proper use of the voice; greater attention to literature; songs in English, Italian, German. Writing assignments, as appropriate to the discipline, are part of the course. Juried examination for credit.

Grade of C or better in MUSIC 150, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 180

Applied Music-Elective Level

Individual instruction in applied music to prepare students for Music 181. Includes private lesson (minimum of one hour). Writing assignments, as appropriate to the discipline, are part of the course.

Students must own (or have access to) the instrument they plan on studying.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 1 times

Music (MUSIC) 181

Applied Music-Freshman Level I

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). First of a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 182

Applied Music-Freshman Level II

Continuation of the process initiated in Music 181. Individual instruction in applied music. Includes weekly private lessons (minimum of one hour). Second of a four-course sequence of private music lessons required of students in Associate in Fine Arts Music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 181, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 183

World Music

A study of representative music of the non-Western world, with an emphasis on its function within the culture of which it is a part. Elements, structure, listening, aesthetic perspectives; concert attendance. Students need no prior formal training or education in music to take this course. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: F1 903N GE: Fine Arts HD Course

Music (MUSIC) 200

Black Music Workshop

Contributions of African-American musicians to development of classical music, American style; study of work of contemporary artists, use of Afro-Cuban instruments. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX, OH

HD Course

Music (MUSIC) 201

Music Theory III

Written harmonization of melodies with strict style figuration. Eleventh and thirteenth chords, modal and chromatic alterations, chromatic modulation. Harmonic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 103, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 202

Music Theory IV

Extended tonality, chromatic harmonies, contemporary harmonic trends, inharmonic modulation. Harmonic analysis. Keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 201, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 204**Commercial Music Workshop I**

Composition, arrangement, and performance of commercial music. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK

Music (MUSIC) 205**Commercial Music Workshop II**

Continuation of Music 204. Extended original composition; use of microphone and recording techniques; their influence upon orchestration. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 204, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK

Music (MUSIC) 211**Aural and Keyboard Skills III**

Continuation of Music 112. Further development of aural perception (melodic, rhythmic, and harmonic dictation) and abilities in sight-singing (single melodies and duets). Application of harmonic concepts at the keyboard. This course is the third in a four-semester sequence of courses in which music majors need to enroll each term of the freshman and sophomore year. The course may be offered separately or with one or more topics combined. Aural skills include sequential development of ear training, sight singing, and dictation and may also include computer-assisted instruction and/or other applications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 112, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 212**Aural and Keyboard Skill IV**

Continuation of Music 211. Further development of aural perception (melodic, rhythmic, and harmonic dictation) and abilities in sight-singing (single melodies and duets). Application of harmonic concepts at the keyboard. This course is the fourth in a four-semester sequence of courses in which music majors need to enroll each term of the freshman and sophomore year. The course may be offered separately or with one or more topics combined. Aural skills include sequential development of ear training, sight singing, and dictation, and may also include computer-assisted instruction and/or other applications. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in MUSIC 211, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 221**Music Literature & History**

Introduction to the standard concert repertory through intensive guided listening. Representative works by major composers are chosen to illustrate the principal styles, forms and techniques of vocal and instrumental music. Assumes a fundamental knowledge and understanding of the elements of music. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

IAI: F1 900,F1 901 GE: Fine Arts

Music (MUSIC) 225**Individual Project**

Individual project as determined with the instructor. Students would also be required to complete an internship as chosen through a discussion with the instructor. Eligibility for course repetition for additional credit hours determined by the instructor. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW

Repeatable: Yes, up to 2 times

Music (MUSIC) 281**Applied Music-Sophomore Level I**

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). Third course in a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 181, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Music (MUSIC) 282**Appl Music-Soph Lvl II**

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). Last course in a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MUSIC 281, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, WR

Networking Technologies (NET TEC)

Networking Technologies (NET TEC) 101

Client-Server Database I

This course introduces client-server Relational Database Management Systems (RDBMS) that are commonly used to design scalable databases. Topics include relational database terminology and concepts, database design using Normalization, Data Modeling and Entity-Relationship (ER) models, schemas, using Structured Query Language (SQL) for database construction and application processing, and additional data-base-related concepts. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Networking Technologies (NET TEC) 111

Intro to Computer Electronics

Introduction to concepts and principles used in modern computers and computer circuits; basic computer numbers systems; computer architecture; exposure to computer languages; digital logic. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 116, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, TR

Networking Technologies (NET TEC) 119

Intro To Networking

Covers the basics of networking from the component hardware to the topology and theoretical foundation of networks. Emphasis will be placed on learning current networking theoretical models and on supporting and maintaining a network. Various types of networks and various topologies will be covered. This course is ideal for the individual that wants to obtain a solid foundation in the principles of Networking. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 116, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, TR

Networking Technologies (NET TEC) 121

Internetworking I

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation in networking technologies. Writing assignments, as appropriate to the discipline, are part of the course. NOTE: CIS 101 or CIS 116 or COMPSFI 101 recommended prior to enrolling in this course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Networking Technologies (NET TEC) 122

Internetworking II

This course describes the architecture, components, and operations and routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality, and the essential routing protocols and virtual LAN operation in both IPv4 and IPv6 networks.

Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NET TEC 121, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Networking Technologies (NET TEC) 201

Client-Server Database II

In this course, the students shall learn of the how to manage a client-server database - serve as database management administrator (DBA), learn techniques to create initial database, configure storage space, add/delete/modify users, and security issues for a database. Network configuration and performance tuning will be covered in more advance courses. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Networking Technologies (NET TEC) 202

Client-Server Database III

In this course, the students shall learn of the how to manage a client-server database - serve as database management administrator (DBA), learn procedures necessary to recover a database failure, and ensure network accessibility for a client-server database. Student will learn both command-line and GUI interfaces to perform these procedures. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Networking Technologies (NET TEC) 203

Client-Server Database IV

In this course, the students will learn how to tune a client-server database and serve as database management administrator (DBA): learn tuning concepts, diagnose and prevent lock contention, discuss difference between dedicated and shared servers, prevent performance degradation as well as use tools to diagnose, troubleshoot and optimize database productivity. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA

Networking Technologies (NET TEC) 221

Internetworking III

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality, resolve common issues in both IPv4 and IPv6 networks, and implement a WLAN in a small-to-medium network. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NET TEC 122, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Networking Technologies (NET TEC) 222

Internetworking IV

This course discusses the WAN technologies and network services required by converged applications in a complex network. In a complex hierarchical networks, students will learn the selection criteria of network devices and WAN technologies to meet network requirements, configure and troubleshoot network devices, resolve common issues with data link protocols, and develop the knowledge and skills needed to implement virtual private network (VPN) operations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NET TEC 221, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Networking Technologies (NET TEC) 240**Operating Systems/Server I**

This course introduces the concepts and components of a domain server to manage and serve the resources available in a network environment. The fundamentals of a domain controller including domain services, network name resolution, resource containers, directory management, and network accessibility are discussed with hands on learning experience. The processes of server installation, configuration, and maintenance will establish the necessary knowledge for planning and implementing advanced services. Writing assignment, as appropriate to the discipline are part of the course. Allowed repeatable course: course may be repeated up to three times and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Grade of C or better in CIS 116 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, OH, TR, WR

Repeatable: Yes, up to 4 times

Networking Technologies (NET TEC) 245**Cloud Computing and Services**

Cloud services are commonly adopted in current business operational infrastructure that on-demand services as shared resources to be accessed by users through private or public network connections. This course presents the essential technologies for cloud deployments that include system requirements, service evaluations, secure network access, and automation and orchestration for cloud service management. Students will perform hands-on projects for cloud deployments using services appropriate to the profession. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CIS 116, and NET TEC 121 -OR- COMPSFI 101, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, OH, TR, WR

Networking Technologies (NET TEC) 260**Microcomputers**

Introduction to microcomputer architecture, peripheral and input/output devices. Testing, troubleshooting, upgrading and repair of microcomputer systems. Writing assignments, as appropriate to the discipline, are part of the course

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, TR

Networking Technologies (NET TEC) 270**Local Area Networks**

Selection and installation of network hardware and software. Management and maintenance of networks. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Courses may be repeated up to three times and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Grade of C or better in (CIS 116 or NET TEC 240), or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, TR

Repeatable: Yes, up to 4 times

Networking Technologies (NET TEC) 299**Special Topics Networking Systems Technologies**

Special topics in networking systems and technology will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K12 education and industry. Writing assignments, as appropriate to the discipline are part of the course.

Consent of Department Chairperson.

1-4 Lecture Hours. 1-4 Credit Hours.

Offered At: DA, OH, TR, WR

Repeatable: Yes, up to 4 times

Nursing (NURSING)

Nursing (NURSING) 101**Fundamentals of Nursing**

This course is an introduction to the nursing profession and patient-centered care. Emphasis is placed on the knowledge and skills needed to provide quality care to culturally diverse communities. Concepts of focus are communication, safety and professionalism. The theoretical foundation for health assessment and nursing skills is presented and the student is given an opportunity to demonstrate these skills in a laboratory setting. An introduction to the nursing process provides a decision-making framework to assist students in developing effective decision-making skills. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of the course.

Successful completion of ENGLISH 101, BIOLOGY 121, CHEM 121 or higher-level chemistry, MATH 118 or higher General Education Math, and Admission to the City Colleges of Chicago School of Nursing Associate's Degree in Nursing Program.

8 Laboratory hours. 3 Lecture hours. 7 Credit Hours.

Offered At: MX

Nursing (NURSING) 102**Introduction to Medical-Surgical**

This course focuses on the care of adult patients with one primary comorbidity that requires medical and / or surgical intervention. Emphasis is placed on the care of patient and their families. Concepts of patient-centered care, communication, professionalism, cultural sensitivity, safe practice, teamwork and collaboration and informatics are integrated throughout the course. More complex health assessment and nursing skills are presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide students an opportunity to apply theoretical concepts and implement safe patient care to adults in acute care settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of this course.

Admission to the City Colleges of Chicago Nursing Program and successful completion of NURSING 101 with a C or better. LPN licensure for students admitted through the bridge cohort.

8 Laboratory hours. 3 Lecture hours. 7 Credit Hours.

Offered At: MX

Nursing (NURSING) 150

Nursing Fundamentals I

The concepts of holism, nursing practice, multicultural society and communication are studied for purposes of assisting persons to meet their basic needs. The role of the practical nurse in the use of the nursing process is studied and practiced in classroom, laboratory and long-term settings specifically in relation to protection against infection and providing for safety, mobility, comfort, hygiene, elimination and nutrition needs. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into Practical Nursing Program 240.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Nursing (NURSING) 151

Nursing Fundamentals II

Students learn to administer medications and to use the nursing process to care for persons having surgery. The nursing process is also used to assist persons with oxygen, wound care, fluid and electrolyte, and rest and sleep needs and to assist persons who need relief from pain. Learning in classroom, lab and clinical settings foster professional growth. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Practical Nursing Program.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Repeatable: Yes, up to 1 times

Nursing (NURSING) 152

Nursing Perspectives

The course introduces students to the philosophy, conceptual framework, outcomes and competencies of the program. Nursing practice, nursing process and the therapeutic relationship are studied along with the ethical and legal aspects of nursing from the perspective of nursing practice in today's society. Contemporary health care delivery issues are also discussed. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into Practical Nursing Program 240.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Nursing (NURSING) 153

Nursing Thru Life Span I

This course focuses on the care of clients throughout the life span experiencing common disorders interfering with oxygenation, nutrition, elimination, hormonal balance, and protection from infection. The student integrates previous knowledge relating to the concepts of holism, nursing practice, nursing process, multicultural society, and communication. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NURSING 151 and NURSING 152 and BIOLOGY 226.

4 Laboratory hours. 3 Lecture hours. 5 Credit Hours.

Offered At: MX

Nursing (NURSING) 154

Nursing Thru Life Span II

Focusing on meeting the basic needs of mothers and children and their families, the student integrates previous learning relating to the concepts of holism, nursing practice, nursing process, multicultural society and communication. Preventive, supportive and therapeutic care is learned in class, lab and clinical settings. Students are expected to demonstrate professional growth and to function within the provisions of the most current Illinois Nurse Practice Act. Theoretical concepts are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NURSING 151, 152 and BIOLOGY 226.

4 Laboratory hours. 3 Lecture hours. 5 Credit Hours.

Offered At: MX

Nursing (NURSING) 155

Nursing Thru Life Span III

This course focuses on the care of persons throughout the life span experiencing the most common disorders interfering with sexuality, mobility, and safety (including mental health disorders). Cancer is also studied because of its interferences with all basic needs. Students integrate previous related learning and are expected to demonstrate professional growth and to function within the provisions of the Illinois Nurse Practice Act. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in NURSING 154 and BIOLOGY 227.

7 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: MX

Nursing (NURSING) 203

Nursing Leadership

This course facilitates the transition of the student into the role of a professional nurse. Previously learned concepts continue to be emphasized along with evidence-based practice, quality improvement, and leadership. Emphasis is placed on contemporary issues, appreciation of human diversity, cultural competence and management concepts. Principles of delegation and conflict management will be emphasized. Strategies to guide personal and professional development will guide short term and long term career goals. Legal and ethical issues are discussed with a focus on personal accountability and responsibilities. Standards of practice and the significance of functioning according to the state regulations and statutes are analyzed. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of this course.

Grade of C or better in NURSING 210 and NURSING 211.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

HD Course

Nursing (NURSING) 210**Intermediate Medical-Surgical Nursing**

This course focuses on the care of adult patients with multiple comorbidities who require medical and/or surgical interventions. Emphasis is placed on helping patients, their families, and groups cope with alterations in body functions. Concepts focused upon in previous courses continue to be emphasized along with teamwork and collaboration, informatics, evidence-based practice and quality improvement. More complex health assessment and nursing skills are presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide the student with an opportunity to apply theoretical concepts and implement safe care to one or two clients and selected groups in a variety of settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of the course.

Grade of C or better in NURSING 102, BIOLOGY 227, MICROBIO 233; for LPN Bridge Students NURSING 140.

6 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: MX

Nursing (NURSING) 211**Maternal-Newborn/Mental Health**

This course focuses on two clinical areas; the childbearing family as well as patients, families and groups who are experiencing cognitive, mental and behavioral disorders. In relation to the childbearing family an integrative, family-centered approach to the care of mothers and newborns is promoted. Emphasis is placed on normal and high-risk pregnancies, normal growth and development, family dynamics and the promotion of health behaviors in the patients. In relation to patients, families and groups who are experiencing cognitive, mental and behavioral disorders emphasis is placed on management of those facing physical and psychological stressors as well as promoting and maintaining the mental health of individuals and families. Concepts of crisis intervention, therapeutic communication, anger management and coping skills are integrated throughout the course. The community as a site for care and support services is addressed. Health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide students with the opportunity to apply theoretical concepts and implement safe, quality, evidence-based patient care in selected settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Grade of C or better in NURSING 102, BIOLOGY 227, MICROBIO 233; for LPN bridge students NURSING 140.

6 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: MX

Nursing (NURSING) 212**Pediatric/Gerontologic Nursing**

This course focuses on two clinical areas: the childbearing family as well as older adult patients, families, and groups who are experiencing age-related changes. In relation to the childbearing family an integrative, family-centered approach is promoted in the care of children. Emphasis is placed on normal growth and development, family dynamics, common pediatric disorders and the promotion of healthy behaviors in patients. In relation to the care of older adult patients the focus is on addressing their unique physiological and psychosocial needs in addition to the complex, multiple comorbidities. Emphasis is placed on collaborating with the interprofessional healthcare team to retain functional ability within home and residential settings. More complex health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experience provides the student with opportunity to apply theoretical concepts and implement safe, quality, evidence-based patient care in clinical settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of this course.

Grade of C or better in NURSING 210 and NURSING 211.

6 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: MX

Nursing (NURSING) 213**Advanced Medical Surgical**

This course focuses on advanced concepts of nursing care as they relate to adult patients with acute, complex, and multiple comorbidities. Previously learned concepts continue to be emphasized along with evidence-based practice, quality improvement, and leadership. Implementation of priority setting, clinical judgment and tenets of legal and ethical practice are integrated throughout the course. More complex health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide the student with an opportunity to apply theoretical concept and implement safe, quality, evidenced-based care to patients, families and groups in a variety of settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Grade of C or better in Nursing 210 and 211.

6 Laboratory hours. 3 Lecture hours. 6 Credit Hours.

Offered At: MX

Occupational Therapy Assistant (OTA)

Occupational Therapy Assistant (OTA) 106

Foundations of Human Occupation

This course explores the meaning of human occupation and its relationships to health, illness and disability. The historical roots of occupational therapy are explored and linked to the roles of contemporary occupational therapy practitioners. Students will experience a variety of learning strategies and activities as a means to gaining understanding of occupation, the occupational therapy process and the skills needed by a healthcare professional. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 107

Occupations Of Childhood

The first in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents occupational and developmental frameworks for understanding the occupational nature of infants and children through 12 years of age, their families and caregivers. Means of applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 108

Practice Skills of OT Assistant I

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process with infants, children through twelve years of age and their families in a variety of settings. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 109

Occupations of Adolescence Early Adulthood

The second in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of adolescents and young adults at home, at school and in the community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 110

Practice Skills of OT Assistant II

Structured experiential learning will provide opportunities for the student to solidify knowledge develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with adolescents and young adults. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 209

Occupation of Middle Adulthood

The third in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of the middle adulthood years in home settings, work environments, and in multiple levels of community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studies within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 210

Practice Skills of OT Assistant III

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with middle-aged adults. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 211

Special Topics for OT I

The first of a two course sequence designed to develop knowledge and skills needed for the provision of occupational therapy services to special populations. Students will explore the role of the occupational therapy assistant in a variety of service delivery contexts. A variety of strategies used to engage in collaborative occupational therapy supervisory relationships in settings without occupational therapists will be addressed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Laboratory Hours. 3 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 212

Occupations of Later Adulthood

The fourth in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of later adulthood in multiple living settings, work-related environments, and in community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances occurring during this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 213**Practice Skills of OT Assistant IV**

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with elders. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 214**Special Topics for OTA II**

The second of a two course sequence designed to develop knowledge and skills needed for the provision of occupational therapy services to special populations. Students will explore the role of the occupational therapy assistant in a variety of service delivery contexts. A variety of strategies used to engage in collaborative occupational therapy supervisory relationships in settings without occupational therapists will be addressed. A special populations independent study incorporating fundamentals of entrepreneurship and marketing is included. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Laboratory Hours. 3 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 215**Fieldwork Level II**

Students will apply and synthesize the knowledge base skills and attitudes of an occupational therapy assistant in a supervised health care fieldwork experience. Fieldwork placements in a community settings or institutions will afford students opportunities to engage in occupation-based practice with individuals across the lifespan and who may experience a variety of disorders and conditions. The course includes a campus-based student seminar to support the process of professional skills acquisition. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Lecture Hours. 20 Laboratory Hours. 6 Credit Hours.

Offered At: WR

Occupational Therapy Assistant (OTA) 216**Fieldwork Level B**

Students will apply and synthesize the knowledge base, skills and attitudes of an occupational therapy assistant in a supervised health care fieldwork experience. Fieldwork placements in community settings or institutions will afford students opportunities to engage in occupation-based practice with individuals across the lifespan and who may experience a variety of disorders and conditions. The course includes a campus-based student seminar to support the process of professional skills acquisition. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

2 Lecture Hours. 20 Laboratory Hours. 6 Credit Hours.

Offered At: WR

Oceanography (OCEAN)

Oceanography (OCEAN) 101**Intro To Oceanography**

Third dimension of the ocean, its depth, and as new frontier awaiting exploration; interdisciplinary study of ocean and interphase between air and water and how it affects the physical environment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH, TR

IAI: P1 905 GE: Physical Sciences

Paralegal (PARALEG)

Paralegal (PARALEG) 147**Intro to Paralegal Studies**

This course is the first of the required courses in the Paralegal AAS program/plan 304. It provides an overview of the American legal system. It explores essential knowledge in the paralegal field, including the basic skills, concepts, and reasoning processes for success in a paralegal career. This course explores basic paralegal roles and responsibilities and specific limitations as they relate to the legal system and the law office environment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 148**Civil Litigation**

This course is one of the requirements of the Paralegal AAS program/plan 304. It introduces the student to procedural concepts of the civil litigation process in state and federal courts with an emphasis on Illinois and federal civil codes. It examines the role of the paralegal from the initial phases of the pre-trial investigation and discovery through the appeals process while emphasizing legal theory and practical skills. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 149**Family Law**

This course is one of the requirements of the Paralegal AAS program/plan 304. It is an overview of the basic principles of family law and domestic relations, with an emphasis on Illinois law. It examines the areas of marital contracts, divorce, annulment, issues affecting children, and other legal matters relating to domestic relations. It also covers client interviews, the drafting of necessary pleadings and supporting documents, and the performance of basic research relating to family law and domestic relations as well as the role of the paralegal in family law. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 150

Legal Research and Writing I

This course is one of the requirements of the Paralegal AAS program/plan 304. It provides an overview of the fundamentals of legal research and writing. This course covers the use of primary and secondary source materials to research legal questions. It examines different types of legal documents and provides training in legal analysis. The course also includes principles and techniques of legal writing and their application to legal correspondence and documents as well as the role of the paralegal in legal research and writing. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of PARALEG 147, PARALEG 148 and ENGLISH 101 with a grade of "C" or better, or consent of the Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 219

Real Estate Law for the Paralegal

This course is one of the requirements of the Paralegal AAS program. It introduces the fundamentals of real estate law, with the emphasis on Illinois law, and provides a basic understanding of the elements of the real estate industry. The course covers real property law, categories of ownership, legal descriptions, contracts, financial aspects, and special issues in real estate law. It examines the real estate transaction from the beginning of the process to the closing. It emphasizes the drafting of legal descriptions of property, preparing closing documentation and performing a title search. It also examines the role of the paralegal in a law office, financial institution, or title company. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 220

Criminal Law for the Paralegal

This course is one of the requirements of the Paralegal AAS program. It explores the Illinois and federal court systems as well as defines the categories of crime and the types of legal defenses. It introduces the concepts involved in criminal proceedings and explores the stages of criminal litigation from the arrest through post-trial procedures. It enables the student to understand all procedural aspects of criminal cases and the role of the paralegal in aiding an attorney in trial preparation, the trial itself, and post-trial procedures and appeals. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 222

Contract Law for the Paralegal

This course is one of the requirements of the Paralegal AAS program/plan 304. It provides the student with an in-depth analysis of the law pertaining to types of business organizations, contract formation, resolution of contract disputes and the impact of the Uniform Commercial Code on traditional contract theory. The role of a corporate paralegal is covered as it relates to the business environment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 223

Tort Law

This course is one of the requirements of the Paralegal AAS program/plan 304. It examines the fundamental elements of tort law and the principles of tort litigation. It introduces the different categories of torts and focuses on the role of the paralegal in tort litigation from the point of view of both the plaintiff and the defendant. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 224

Wills, Trusts and Probate

This course is one of the requirements of the Paralegal AAS Program/plan 304. It covers both the theoretical and practical knowledge needed in the estate planning and probate processes. It covers wills, trusts, and estate administration. The course emphasizes the role of the paralegal in the drafting of estate planning documents and carrying out probate procedures. Emphasis is placed on applicable Illinois law and Federal tax laws. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 225

Legal Research and Writing

This course is one of the requirements of the Paralegal AAS program/plan 304. It is a continuation of Legal Research & Writing I and provides a more in-depth, hands-on exploration of legal research, writing, and analysis. It provides additional experience in legal research, reasoning, analysis, and writing. This course continues to explore the various legal reference sources, both traditional and non-traditional. It continues to develop legal reasoning skills and strategies to analyze legal authority in case law. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 102, PARALEG 147, 148, 149, 223 and PARALEG 238 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 226**Internship for the Paralegal**

This course is an elective in the Paralegal AAS program. It is designed to enable students to combine classroom training with practical paralegal work experience through supervised on-the-job training in a public or private legal setting. Periodic seminars are held to discuss experiences, concerns, and topical questions. Students are required to keep journals of their internship experience. A minimum number of hours of on-site time are required for this course. Internship placement must be approved by the Program Coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of all other Paralegal AAS Program requirements with a grade of C or better and consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 227**Elder Law**

This course is an overview of legal issues that are increasingly relevant as the older population increases. It covers a variety of legal documents and the many legal situations which affect the elderly. It also covers topics such as asset management, estate planning, health care, personal planning and protection, resources of both public and private agencies and organizations, and the court systems. It examines the role of the paralegal in interacting with elderly clients as well as in using the various resources available in elder law. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 228**Environmental Law for the Paralegal**

This course examines the fundamental concepts of environmental law. It emphasizes both state and federal laws and regulations enacted to preserve and protect the environment. It covers the specific areas of air quality control, water quality control, toxic substance control, waste management, and hazardous releases. It also covers energy policy, natural resources, international environmental law, and current environmental issues. It focuses on the role of the paralegal in environmental law. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 229**Immigration Law**

This course provides an overview of the federal immigration system and the concepts and procedures of immigration law for the paralegal. It examines immigration law and regulations as well as practical applications in immigration law including the naturalization process, visa procedures, and the right and obligations of aliens in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 238**Legal Ethics for the Paralegal**

This course is an elective in the Paralegal AAS program/plan 304. It provides the student with an overview of ethical considerations arising in the paralegal profession. This course discusses the regulation and discipline of attorneys and paralegals, issues related to confidentiality and conflicts of interest, unauthorized practice of law and other ethical issues that pertain particularly to paralegals. Students will discuss general ethical considerations and will work directly with the Illinois Rules of Professional Conduct. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 239**Business Organizations & Agency Law**

This course is an elective in the Paralegal AAS program/plan 304. It provides the student with an overview of the formation and operation of business enterprises, exposes the student to types of business organizations and to the law surrounding principal/agent relationships. Student will learn about sole proprietorships, general and limited partnerships, limited liability companies and corporations. The role of a corporate paralegal is covered as it relates to the benefits and disadvantages of each type of entity as well as the formation, dissolution and recordkeeping for each of these entities. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Paralegal (PARALEG) 240**Computers in the Law Office**

This course is an elective in the Paralegal AAS program/plan 304 and can be taken in lieu of the internship requirement. A general introduction to the use of computer software programs in the modern law office. Office organization, legal terminology, fees and billing procedures, e-filing, scheduling and calendaring, preparation and maintenance of case files, preparation of law office forms, and an introduction and survey of a variety of legal specific software and legal web resources are involved in this course. Students will develop a greater appreciation for computers by learning how computers can help paralegals complete tasks and assignments. This course includes hands on computer exercise using professional software programs and web resources used in the law office by paralegals. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, PARALEG 147 and PARALEG 148 with a grade of C or better or consent of program director.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Pharmacy Technology (PHAR TC)

Pharmacy Technology (PHAR TC) 100

IV Preparation

This course provides basic understanding and training of intravenous preparations of sterile products, clothing, equipment, calculations and documentation. Writing assignments, as appropriate to the discipline, are part of the course.

Current Licensed and Certified Pharmacy Technician
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 101

Pharmacology Allied Health

Principles and characteristics of drugs, including physical and chemical properties, dosage calculations, effects and reactions, toxicity, emergency procedures and methods of administration. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Pharmacy Technology program/plan 254.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 102

Basic Science for Allied Health Personnel

Fundamental biological and biochemical principles as applied to allied health personnel. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Pharmacy Technology program/plan 254.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 103

Intro To Pharmacy Technology

This course introduces the student to the field of pharmacy technology. Included is an overview of the Pharmacy Technician certificate program, definition of the pharmacy technician's role, and a review of opportunities open to the pharmacy technician. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Pharmacy Technology program/plan 254.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 104

Pharmaceutical Calculations

Designed to provide mathematical tools for students enrolled in the pharmacy technology program. Emphasis is on practical aspects of mathematics and less upon the theoretical. Topics include, but are not limited to: fundamentals of measurement and calculation; interpretation of prescription or medication order; the metric system; calculation of doses; reducing and enlarging formulas; and percentage and ratio calculation. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Pharmacy Tech Program/Plan 254.
3 Lecture hours. 3 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 105

Prescription Compounding

This course provides a basic understanding and training of compound preparations of products, equipment, calculations and documentation. Writing and reading assignments, as appropriate to the discipline, are part of the course.

Current Licensed and Certified Pharmacy Technician
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 113

Prescription Processing

Provides basic understanding of the person / pharmacy computer prescription processing software and the development of keyboarding skills. Learn to produce all requisite documentation for the pharmacy. Writing assignments, as appropriate to the discipline, and part of the course.

Admission to the Pharmacy Technology program/plan 254.
2 Lecture hours. 2 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 121

Pharmacy Communication

Provides basic communication skills and pharmacy practice including verbal, nonverbal communication. Communication barriers, listening/empathic responding, assertiveness, interviewing assessment, patient outcomes, communications with special patients/children about medications are explored in this profession. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 201

Intro To Pharmacy Law

Overview of legal aspects of the pharmacy practice, including a review of the Federal Controlled Substances Act and Illinois statutes, rules and regulations. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Pharmacy Technology program/plan 254.
1 Lecture hours. 1 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 202

Pharmacy Operations

Fundamentals and specifics of drug distribution in hospital and retail pharmacies, including bulk compounding, packaging, quality control, inventory control, drug storage and a variety of drug delivery systems. Mathematical calculations for basic pharmacy operations. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Pharmacy Technology program/plan 254.
2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 204**Clinical Practicum I**

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in pharmacy technology. Supervised work experience in ambulatory care pharmacy practice is provided by applying the knowledge and training learned in related pharmacy technology courses. Training also involves progression from role of observer to assistant, then to relative independence under the direct supervision of a registered pharmacist and clinical coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHAR TC 101, 102, 103.

2 Lecture hours. 10 Practicum hours. 4 Credit Hours.

Offered At: MX

Pharmacy Technology (PHAR TC) 205**Clinical Practicum II**

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in pharmacy technology. Supervised work experience in ambulatory care pharmacy practice is provided by applying the knowledge and training learned in related pharmacy technology courses. Training also involves progression from role of observer to assistant, then to relative independence under the direct supervision of a registered pharmacist and clinical coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Pharmacology Technician Program or Consent of Department Chair and Grade of C or better in PHAR TC 201 and PHAR TC 202.

2 Lecture hours. 10 Practicum hours. 4 Credit Hours.

Offered At: MX

Phi Theta Kappa (PTKAPPA)

Phi Theta Kappa (PTKAPPA) 101**Phi Theta Kappa Leadership Development**

Development of leadership abilities through the study of classic examples in The Great Books and through experiential exercises. Includes topics on leadership and group dynamics, moral and ethical responsibilities of leadership, delegation of authority. Conflict resolution, essential leadership skills, and productive leadership behavior. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, WR

Philosophy (PHIL)

Philosophy (PHIL) 105**Logic**

This course introduces students to methods of reasoning, inference and argument. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H4 906 GE: Humanities

Philosophy (PHIL) 106**Introduction To Philosophy**

Introduction to philosophical methods of inquiry through analysis and evaluation of influential philosophical ideas. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H4 900 GE: Humanities

Philosophy (PHIL) 107**Ethics**

Introduction to representative ethical systems; approaches to problems of values and conduct. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H4 904 GE: Humanities

Philosophy (PHIL) 108**Philosophy Of Religion**

Introduction to major religious traditions, analyzing various conceptions of God, values, reason, and faith. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: H4 905 GE: Humanities

Philosophy (PHIL) 110**Social/Political Philosophy**

Discussion of readings in philosophy covering issues such as justice, authority, obligation, rights, power, freedom and well-being. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, WR

IAI: H4 907 GE: Humanities

Philosophy (PHIL) 151**Bioethics**

This course will prepare students to develop and apply explicit, coherent reasoning and judgement to important issues in the ethics of healthcare and to address the philosophical issues of human personhood, life, death, and suffering. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Philosophy (PHIL) 201

Greek Philo To Renaissance

A study of major philosophers and schools of thought, including social, political and religious contexts within which each developed, from the pre-Socratic thinkers to the Renaissance. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, WR

IAI: H4 901 **GE:** Humanities

Philosophy (PHIL) 202

Enlightenment To Present

This course covers major philosophers and schools of thought from the 17th century to the present. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, WR

IAI: H4 902 **GE:** Humanities

Philosophy (PHIL) 215

Problems In Philosophy

Philosophical problems from such fields as ethics, metaphysics, aesthetics, and philosophy of science. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, TR

IAI: H4 900 **GE:** Humanities

Philosophy (PHIL) 216

Critical Thinking

Introduction to the development of cognitive skills to evaluate claims and arguments in order to make sound judgments about beliefs and actions. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IAI: H4 906 **GE:** Humanities

Philosophy (PHIL) 225

Philosophy Of Art

Basic artistic concepts, including artistic creation, the aesthetic experiences; focus on values and meaning in the arts. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Humanities

Phlebotomy (PHLEB)

Phlebotomy (PHLEB) 109

Phlebotomy Practicum and Seminar I

This course provides principles of phlebotomy techniques and examines the phlebotomist's role as a member of the healthcare delivery team.

The students will perform simulated phlebotomy procedures on campus and actual procedures in a clinical setting. Medical terminology, anatomy and physiology, communications, interpersonal relations, professional behavior, safety requirements in the healthcare institution, venipuncture and capillary puncture techniques will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for English 96 or higher. Admission into the Phlebotomy Program.

9 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: MX

Phlebotomy (PHLEB) 209

Phlebotomy Practicum and Seminar II

This course provides the student with hands-on experience in both venous and capillary blood drawing in a clinical setting (i.e. hospital and ambulatory health care environment) and in the phlebotomy laboratory during clinical practicum. A minimum of 100 successful unsupervised venipuncture using standard equipment is required for the completion of this course. The students will perform simulated capillary punctures on campus to prepare students in a clinical setting. Topics such as stress management quality assurance and quality control, capillary puncture, continuation of medical terminology legal aspects of phlebotomy, data entry, and cardio-pulmonary resuscitation (CPR), will be discussed.

The student will also be trained on how to perform a basic 12-lead electrocardiogram (ECG). Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Phlebotomy program.

16 Laboratory hours. 3 Lecture hours. 8 Credit Hours.

Offered At: MX

Physical Education (PHYS ED)

Physical Education (PHYS ED) 110

Fitness

Concepts, techniques, methods of personal fitness, stressing effects of exercise, relaxation and weight control; fitness programs directed to individual improvement. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 112

Gymnastics And Tumbling

General calisthenics and fundamentals of combinations of simple tumbling, gymnastics, stunts and/or modern gymnastics and practice; competitive aspects and scoring. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 114**Jogging**

Running techniques to improve organic fitness through individualized programs. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 116**Self Def & Combatives**

Elements of self-defense; understanding of combatives; conditioning, offensive and defensive tactics, rules and strategy for competition. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 118**Weight Training**

Development of physical fitness through weight training devices; lifting techniques, circuit training, competitive lifting procedures. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 120**Team Sports**

Combination of one or more seasonal sports such as basketball, floor hockey, soccer, softball, touch football and volleyball; theory and practice of fundamental skills, rules of the game and strategy; competition and tournaments within classes. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 122**Individual Sports**

One or more lifetime sports such as archery, badminton, bowling, fencing, golf, skating, skiing, tennis, and track and field; theory and practice of individual skills, rules of the game, techniques of game strategy; competitive tournaments within class. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 130**Fundamentals of Swimming**

For beginning and intermediate swimmers; breathing techniques, basic strokes, diving and water safety skills. American Red Cross card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 132**Advanced Swim & Water Games**

Instruction in all strokes to improve efficiency and speed; diving from pool side, springboard, rescue skills and surface dives; preparation for lifesaving course; individual and team competition in such games as water basketball and water polo. American Red Cross Card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 134**Aquatic Skills & Synchronized Swimming**

Development of skills for participation in synchronized swimming activities; stunts and combinations of strokes for simple rhythmic routine composition; advanced diving and underwater skills. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 140**Dance Survey**

Introduction to dance techniques such as square, folk, tap, contemporary, social and ballet. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 142**Square & Folk Dance**

Fundamentals and practice in basic steps and figures of American and foreign folk dance. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 144**Ethnic Dance**

Rhythms, dance and cultures of Africa and their interrelationships with Latin American dance and calypso movements. Writing assignments, as appropriate to the discipline, are part of the course. .5 or 1 lecture and 1 or 2 lab hours per week.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 146**Contemporary Dance I**

Contemporary dance including warm-ups, technique, dance patterns, analysis of rhythm and creative experience in improvisations and simple movement studies. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 148

Contemporary Dance II

Advanced technique, training and principles of movement perception, introduction to fundamentals of dance composition with emphasis on design, form and production. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX, OH, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 150

Ballet

Form, style and performance of basic ballet movements and practice of beginning dances; fundamentals of music related to dance. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, WR

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 152

Tap

Techniques of tap dance; practice and experience in creating simple routines. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 160

Adaptive Physical Education

For students restricted by health limitations; activity programs to meet specific needs of the individual.

0.5-1 Lecture Hours. 1-2 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK, MX

Repeatable: Yes, up to 2 times

Physical Education (PHYS ED) 200

Intro to Physical Education

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 201

Dance Fundamentals

Rhythm as related to movement and dance; skill practice with emphasis on correct performance, interpretation of dance patterns, opportunities for student teaching. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 202

Ballet

Principles of classical ballet, terminology and methods of teaching elementary composition. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 1 Lecture hours. 1 Credit Hours.

Offered At: WR

Physical Education (PHYS ED) 203

Contemporary & Modern Jazz Dance

Analysis through movement, exploration of dance forms, their similarities and differences; skill practice and teaching experience in each area. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK, OH, WR

Physical Education (PHYS ED) 204

Wrestling

Analysis, instruction and theories of coaching, officiating and match strategy. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK, WR

Physical Education (PHYS ED) 206

Football

Analysis, instruction, demonstration of fundamental skills; theory of coaching and officiating, styles of play and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 207

Introduction to Personal Training

This course is designed to prepare students to sit for the personal trainer's exam. The course bridges the gap between exercise science related course work and the practical application skills of personal training. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: WR

Physical Education (PHYS ED) 212

Volleyball

Instruction, demonstration and practice of skills; coaching and officiating, styles of play and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 216

Track

Skills and teaching techniques of track and field events; rules of competition, strategy and team organization of the sport. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 218

Basketball

Fundamentals of basketball and techniques of team organization; skills of each position, offensive and defensive skills, team play, strategy and officiating. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 219**Sports Officiating**

Rules and mechanics of officiating of various team and individual sports; responsibilities and qualifications of an official. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 221**Play & Rhythmic Activities of Early Childhood**

Methods and materials for teaching simple rhythmic games, singing games and other movement experiences for pre-school child; analysis of play situations appropriate to their needs and abilities. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 224**Tumbling And Gymnastics**

Instruction and practice in teaching fundamental exercises; correct execution, development of skills, methods of giving gymnastic commands, tumbling and pyramid building; instruction and theories of coaching, officiating and competitive needs. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 226**Swim & Senior Life Saving**

Skills of fundamental strokes to improve efficiency and speed; diving from pool side and springboard, rescue skills and surface dives; introduction to coaching of competitive swimming; safety, accident prevention; defense methods, rescue techniques. American Red Cross card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 229**Water Safety Instructor**

Swimming skills and techniques in all strokes, skills and techniques of life saving, water safety; practice in class management and teaching progressions; requirements meet those of American Red Cross Water Safety Instructors training program; American Red Cross Water Safety Instructors certificate issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 230**Baseball And Softball**

Basic skills, coaching and officiating styles of play, teaching techniques and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 234**Soccer**

History, basic skills, playing tactics, officiating and teaching methods. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 236**Fitness Programs**

Individual physical development; methods and teaching techniques of various fitness programs; introduction to physiology of exercise. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK, MX

Physical Education (PHYS ED) 237**Body Mechanics**

Principles of fitness, including exercise, nutrition, diet, self-analysis, relaxation, posture, movement and sport activity analysis. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK, MX

Physical Education (PHYS ED) 244**Tennis**

Basic skills, strategy and playing techniques and teaching methods of tennis; rules, history and court etiquette. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Education (PHYS ED) 246**Golf**

Basic practices and teaching of grip, stance and swing; rules, strategy, course layout, etiquette. Writing assignments, as appropriate to the discipline, are part of the course.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: KK

Physical Science (PHY SCI)

Physical Science (PHY SCI) 101**General Course Physical Science**

Introduction to the scientific method, astronomy, geology, meteorology. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: P1 905,P9 900 GE: Physical Sciences

Physical Science (PHY SCI) 102**General Course Physical Science**

Introduction to physics and chemistry; the relationship of matter and energy to physical and chemical changes. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

IAI: P9 900 GE: Physical Sciences

Physical Science (PHY SCI) 107

Current Public Issues in Physical Science

Interdisciplinary approach to physical sciences; current public issues serve as framework for course that covers earth sciences (conservation, pollution, space exploration) as well as other branches of science and social and humanistic aspects; integrates significant aspects of physical science with students other studies as well as daily living. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR

IAI: P9 900 **GE:** Physical Sciences

Physical Science (PHY SCI) 111

General Course I Physical Science

Introduction to the scientific method, astronomy, geology, oceanography, and meteorology. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 99 or Higher or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: P1 905L, P9 900L **GE:** Physical Sciences

Physical Science (PHY SCI) 112

General Course II Physical Science

Introduction to physics and chemistry; the relationship of matter and energy to physical and chemical changes. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 99 or Higher or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, OH, TR, WR

IAI: P9 900L **GE:** Physical Sciences

Physical Science (PHY SCI) 118

Introduction to Meteorology

An introductory course examining the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, climate controls, map reading, and application of the scientific method in analyses of the weather elements. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 99 or Higher or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: HW

IAI: P1 905L **GE:** Physical Sciences

Physical Science (PHY SCI) 295

Independent Research in Physical Science

This course emphasizes independent, student-driven research under the close supervision of a faculty member. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Eligibility for course repetition for additional credit hours is determined by the instructor. No more than an accumulated 12 credit hours will be counted towards graduation.

Eligibility for ENGLISH 101 and MATH 140 or higher or Consent of Department Chairperson.

1 Lecture Hours. 1-6 Laboratory Hours. 1-4 Credit Hours.

Offered At: DA, HW, KK, OH, TR

Repeatable: Yes, up to 4 times

Physical Therapist Assistant (PTA)

Physical Therapist Assistant (PTA) 110

Introduction to Physical Therapy

This course introduces the field of physical therapy (PT) and foundational knowledge of topics threaded throughout the technical portion of the physical therapist assistant curriculum. These topics include, but are not limited to, the history of the profession, PT practice settings, roles and responsibilities of the physical therapist assistant (PTA), the PT/PTA relationship and other interprofessional relationships, ethical and legal considerations in PT, communication skills, cultural competence and diversity in health care related to age, race, ethnicity, socioeconomic status and disability, pharmacology medical terminology, documentation, basic patient safety, patient privacy/comfort, architectural barriers, recognizing and responding to emergency situations, and research and evidence based practice. Upon completion, students should be able to expand upon this foundational knowledge in subsequent courses as it pertains specifically to patient care and conditions/body systems studied. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Physical Therapy Assistant Program.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

HD Course

Physical Therapist Assistant (PTA) 140

Health Promotion & Wellness I

This course introduces the physical therapist assistant student to health promotion and wellness beginning with a reflection of self as an individual and student, as member of the interprofessional healthcare team, and subsequently the community at large. Students will identify strategies for successful navigation of the physical therapist assistant program including identifying personal strengths and weaknesses, self-reflection on health beliefs, and skills to maintain a healthy school-life balance. The second portion of the course will shift beyond self to health promotion and wellness as a member of the community and interprofessional healthcare team. Students will identify, design, and implement an interprofessional initiative to promote the health and wellness of the members of our college community. Upon completion, students should be able to implement skills to maintain a school-life balance to maintain academic success and complete a needs assessment of their environment and implement feasible initiatives aimed at promoting the health and wellness of that community. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 110, 150 and 160.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 150**Therapeutic Procedures I**

This course introduces assessment and measurement techniques and mobility training commonly performed by the physical therapist assistant. In this course, students will learn the applicable foundational knowledge and clinical skills to complete anthropometric, joint ROM, muscle length, muscle strength, sensory, and balance/coordination tests and measurements. Additionally, this course will build upon foundational coursework emphasizing the underlying clinical decision making skills and technical skills for functional patient mobility including assistive device fitting, bed mobility, transfer training, gait training, stair navigation, and wheelchair mobility. Upon completion, students should be able to safely, correctly, and effectively apply and document these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Physical Therapy Assistant Program.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 160**Orthopedic Practice & Exercise**

This course introduces commonly encountered orthopedic conditions in physical therapy and effective interventions for physical therapy management. As each joint of the human body is explored, emphasis is placed on foundational principles of tissue healing, pain management, and recovery of meaningful function for the patient. Using evidence based practice as a guide, clinical decision making skills stress progression and modification of interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of orthopedic conditions as experienced by patients within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Physical Therapy Assistant Program.

6 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 170**Therapeutic Procedures II**

This course covers the theory and application of therapeutic modalities used in physical therapy practice. Modalities covered in this course include: superficial thermal agents (therapeutic heat and cold), ultrasound and phonophoresis, diathermy, lasers, ultraviolet, electrotherapeutics for pain management, muscle contraction, drug delivery, and tissue repair, EMG/biofeedback, traction, massage, compression therapies, aquatics and hydrotherapy. Emphasis is placed on foundational principles and mechanics from physics, physiological effects, indications, contraindications, precautions, skilled application of the modality, clinical decision making, evidence-based practice, and documentation procedures. Upon completion, students should be able to safely, correctly, and effectively apply these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 110, 150 and 160.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 171**Cardiopulmonary & Vascular Practice**

This course introduces commonly encountered cardiopulmonary and vascular conditions in physical therapy. In this course, students will learn the applicable knowledge and clinical skills to complete tests and measurements related to a patient's cardiopulmonary and vascular status. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with cardiopulmonary and vascular risk factor assessments, effective resistive and aerobic exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in the cardiopulmonary and vascular patient populations. Lymphatic and integumentary conditions, tests, measurements, and interventions are introduced as related to the cardiopulmonary and vascular systems. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of cardiopulmonary, vascular, and related lymphatic and integumentary conditions as experienced by patients within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 110, 150 and 160.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 190**Therapeutic Procedures III**

This course introduces treatment and measurement techniques and discusses treatment programs for neuromusculoskeletal dysfunction and injury. Topics include soft tissue and joint dysfunction; assessment of girth, volume, length, sensation, pain, and muscle strength; and selected exercise programs. Upon completion, students should be able to measure strength and joint motion and identify methods to assess sensation, pain, volume, girth, length, and gait abnormalities. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PTA 110, 150, 160 and MAS 110, or Consent of Department Chairperson.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 200**Pathophysiology & Complex Systems**

This course introduces the remaining body systems and conditions encountered in physical therapy: integumentary, endocrine, immune, hematological, gastrointestinal, genitourinary, and metabolic. For each system and its related conditions, the student will explore etiology, pathology, manifestation, medical and physical therapy treatment, and prognosis. Realistic complex patient care and multi-system involvement is explored through an integration with orthopedic, cardiopulmonary, and neurologic conditions routinely treated by the physical therapist assistant as the patient progresses through the acute care, inpatient rehab and/or SNF, home care, and outpatient physical therapy settings. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice related to conditions involving complex system interactions within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 140, 170, 171 and 201.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 201
Neuromuscular Rehabilitation

This course introduces commonly encountered adolescent and adult neurological conditions in physical therapy. In this course, students will learn the applicable foundational knowledge and clinical skills to complete assessment and measurements of sensation, cranial nerve and reflex integrity, cognitive functioning, hypo/hypertonicity, ROM, MMT, spasticity, coordination, and balance. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with risk factor assessments, effective exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in neurological patient populations. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of neurological conditions as experienced by patients within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 110, 150 and 160.

3 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 211
PTA Clinical Education I

This full time clinical education experience (40 hours per week for 8 weeks) offers students the opportunity to gain exposure to a variety of medical and physical therapy diagnoses, develop patient care skills under the supervision of a clinical instructor (physical therapist assistant and/or physical therapist), and become an active participant in the health care team. Students will be placed in inpatient and outpatient physical therapy settings. Writing assignments, as appropriate to the discipline, are part of this course.

Successful completion of PTA 110, 150 and 160.

20 Laboratory hours. 7 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 220
Physical Therapy Across the Lifespan

This course introduces foundations for human development and movement and explores developmental changes across the lifespan. At each developmental stage, this course expands upon physical, cognitive, emotional, psychosocial, and sociocultural changes experienced by individuals and how these differences impact effective physical therapy treatment. Commonly encountered conditions will be introduced along with effective interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of patient conditions experienced across the lifespan within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 140, 170, 171 and 201.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 221
PTA Clinical Education II

This course provides a short-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on basic skills including patient transfers, elementary exercise programs and other learned skills. Upon completion, students should be able to demonstrate satisfactory performance as an introductory-level physical therapy assistant student. Writing assignments, as appropriate to the discipline, are part of the course.

First year completion of the Physical Therapy Assistant program with a minimum grade point average of 2.0, or consent of Department Chairperson.

6 Laboratory hours. 2 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 230
Therapeutic Procedures IV

This course covers normal development, adult and pediatric/CNS dysfunction, spinal cord injuries, amputee rehabilitation techniques, and cardiopulmonary rehabilitation. Topics include neurology review, selected rehabilitation techniques, ADL and functional training, prosthetic and orthotic training, and environmental access. Upon completion, students should be able to demonstrate safe and correct application of selected rehabilitation techniques for neurological dysfunction, cardiopulmonary conditions, and amputations. Writing assignments, as appropriate to the discipline, are part of the course.

First year completion of Physical Therapy Assistant program with a minimum grade point average of 2.0, or consent of Department Chairperson.

6 Laboratory hours. 3 Lecture hours. 5 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 240
Health Promotion & Wellness II

This course builds upon content of Health Promotion and Wellness I expanding upon cultural competence, service learning in a broader context as part of the interprofessional team, and continuing professional development as students prepare for the National Physical Therapist Assistant Exam (NPTAE) and employment. The course will integrate classroom and clinical knowledge from throughout the course of study in the physical therapist assistant (PTA) program culminating in a health promotion and wellness initiative aimed at the improving upon the health of the immediate community. Upon completion, students as part of an interprofessional team should be able to complete a needs assessment and implement feasible initiatives aimed at promoting the health and wellness of a culturally diverse community. In addition, students will gain the knowledge and tools to successfully seek licensure and employment. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of PTA 140, 170, 171 and 201.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 260**Advanced PTA Clinical Education**

This terminal full time clinical education experience (40 hours per week for 8 weeks) offers students the opportunity to gain exposure to a variety of medical and physical therapy diagnoses, develop entry-level patient care skills under the supervision of a clinical instructor (physical therapist assistant and/or physical therapist), and become an active participant in the health care team. Students will be placed in inpatient and outpatient physical therapy settings. Writing assignments, as appropriate to the discipline, are part of this course.

Successful completion of PTA 140, 170, 171 and 201.

20 Laboratory hours. 7 Credit Hours.

Offered At: MX

Physical Therapist Assistant (PTA) 280**Physical Therapy Assistant Topics**

This course covers the physical therapist assistant profession in preparation for the state licensure exam. Topics include developing time management skills and practicing for the competence examinations. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PTA 260 and Consent of Department Chairperson.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Physics (PHYSICS)

Physics (PHYSICS) 115**Physics of Energy and Climate**

A study of the influence of physics on society through the lens of energy, thermodynamics, energy sources and energy carriers, and the impact of energy on the environment via global climate change. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 and MATH 99 or Higher or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, WR

Physics (PHYSICS) 131**Mechanics And Power**

A limited number of principles are covered with emphasis placed on applications. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, MX, TR

GE: Physical Sciences

Physics (PHYSICS) 132**Electricity Heat And Light**

Continuation of Physics 131. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 131, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA

Physics (PHYSICS) 215**Statics**

Rigid bodies, fluid statics, friction, moments of inertia, centroids, and virtual work. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (PHYSICS 235 and MATH 208), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, TR, WR

IAI: EGR 942

Physics (PHYSICS) 216**Dynamics**

Problems in kinematics, dynamics of a particle and a system of particles, dynamics of a rigid body, work, energy, small oscillations, and general plane motion. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (PHYSICS 235 and MATH 208), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, OH, TR, WR

IAI: EGR 943

Physics (PHYSICS) 217**Mechanics Of Materials**

Study of elastic and inelastic relationships of external forces acting on deformable bodies. Includes stresses and deformations produced by tension and compression, torsion and bending, combined stresses, buckling, repeated loads, impact, and influence of properties of materials. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 215, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, TR, WR

IAI: EGR 945

Physics (PHYSICS) 220**Physics Calculations & Practice**

Detailed practice in problems and application of theory for better understanding of physics; application of ideas of physics such as conservation laws, wave motion, invariance and trigonometry, analytic geometry, vector analysis, probability and statistics. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in (PHYSICS 221 or PHYSICS 231), or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK

GE: Physical Sciences

Physics (PHYSICS) 221**Mechanics, Waves, and Heat**

Foundations and concepts in Physics, including elementary problems in mechanics wave motion and heat. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 141 or higher or concurrent enrollment in MATH 141 or MATH 143, and Eligibility for ENGLISH 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: P1 900L **GE:** Physical Sciences

Physics (PHYSICS) 222

Electricity, Light and Modern Physics

Continuation of Physics 221. Exploration of Electromagnetism, Light and Modern Physics using an algebra based approach. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 221, and MATH 141 and Eligibility for ENGLISH 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Physics (PHYSICS) 224

Physics Calculations & Practice

For students majoring in engineering or physical sciences. Detailed practice in problems and application of theory involving calculus to provide better understanding of physics. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 235, or Consent of Department Chairperson.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK

Physics (PHYSICS) 231

General Physics I: Mechanics & Wave Motion

Statics and dynamics of a particle and a rigid body; oscillatory and wave motion with application to sound. Primarily for liberal arts students and those in pre-medical curricula. Writing assignments, as appropriate to the discipline, are part of the course.

Concurrent enrollment in PHYSICS 220 and Grade of C or better or concurrent enrollment in MATH 141 or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, KK

IAI: P1 900 GE: Physical Sciences

Physics (PHYSICS) 232

General Physics II: Electricity & Magnetism

Electrostatics, magneto statics, laws of DC and AC circuits, electromagnetic radiations and elementary electronics. Primarily for liberal arts students and those in pre-medical curricula. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (PHYSICS 231, or PHYSICS 235), or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, KK

Physics (PHYSICS) 233

General Physics III: Heat light & Modern Physics

Introductory thermodynamics, geometrical and physical optics, atomic and nuclear radiations and associated elementary quantum aspects. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (PHYSICS 231, or PHYSICS 232), or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA

Physics (PHYSICS) 235

Engineering Physics I: Mechanics & Wave Motion

Exploration of the laws of mechanics and wave motion using calculus to analyze practical and theoretical problems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 207, or concurrent enrollment in MATH 207 and Eligibility for ENGLISH 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: P2 900L, PHY 911 GE: Physical Sciences

Physics (PHYSICS) 236

Engineering Physics II: Electricity & Magnetism

Exploration of electricity and magnetism as they relate to fields, forces and energy using calculus to analyze theoretical and practical problems in lecture and laboratory. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 235, and MATH 207 and Eligibility for ENGLISH 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: PHY 912

Physics (PHYSICS) 237

Engineering Physics III: Heat light and Modern Physics

Exploration of the laws of heat, light, and modern physics and analysis of practical and theoretical problems through the use of calculus. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PHYSICS 235, and MATH 207 and Eligibility for ENGLISH 101 or Consent of Department Chairperson.

6 Laboratory hours. 2 Lecture hours. 5 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: PHY 913

Physics (PHYSICS) 295

Independent Research in Physics

This course emphasizes independent, student-driven research under the close supervision of a faculty member. Eligibility for course repetition for additional credit hours is determined by the instructor.

Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Eligibility for course repetition for additional credit hours is determined by the instructor. No more than an accumulated 12 credit hours will be counted towards graduation.

Eligibility for ENGLISH 101 and MATH 140 or higher or Consent of Department Chairperson.

1 Lecture Hours. 1-6 Laboratory Hours. 1-4 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Repeatable: Yes, up to 4 times

Polish (POLISH)

Polish (POLISH) 101

First Course Polish

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

HD Course

Polish (POLISH) 102

Second Course Polish

Continuation of Polish 101. Writing assignments, as appropriate to the discipline, are part of the course.

Placement test, or POLISH 101.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

HD Course

Polish (POLISH) 103**Third Course Polish**

Review and development of basic language skills, conducted in Polish. Writing assignments, as appropriate to the discipline, are part of the course.

ACTFL Writing Proficiency Test (Score 3.00), or Placement test, or POLISH 102.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

HD Course

Polish (POLISH) 104**Fourth Course Polish**

Review of language structure and interpretation of readings, conducted in Polish. Writing assignments, as appropriate to the discipline, are part of the course.

ACTFL Writing Proficiency Test (Score 4.00), or Placement test, or POLISH 103.

4 Lecture hours. 4 Credit Hours.

Offered At: WR

IAI: H1 900 GE: Humanities HD Course

Political Science (POL SCI)

Political Science (POL SCI) 200**Principles of Political Science**

Basic principles of political science. History, theories, and various traditional and modern approaches to the study of political institutions and ideas. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

IAI: S5 903 GE: Social & Behavioral Sciences

Political Science (POL SCI) 201**The National Government**

Development, organization, and functioning of the American national government; origin, growth, and interpretation of the Constitution; and legislative, executive, and judicial processes; administrative development, controls, organization and activities. Successful completion of this course may be used to fulfill the graduation requirement to pass the United States Constitution examination. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S5 900 GE: Social & Behavioral Sciences

Political Science (POL SCI) 202**Urban Government & Politics**

Development, forms, functions, powers and problems of urban government in the United States. Emphasis on metropolitan areas, such as Chicago, and intergovernmental relations; examination of local politics and pressure group activity, administrative organization and fiscal responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK

GE: Social & Behavioral Sciences

Political Science (POL SCI) 203**Comparative Government**

Principles of comparative study of political systems; political culture, governmental structures and institutions, political parties, groups, and ideology; understanding of political systems other than American. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, WR

IAI: S5 905 GE: Social & Behavioral Sciences

Political Science (POL SCI) 204**International Relations**

Study of international relations, analysis of international behavior; role of nation-state and international organizations; factors underlying the development, character and, application of foreign policy; war and peace; major social and political forces at work in the contemporary world system. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: S5 904 GE: Social & Behavioral Sciences HD Course

Political Science (POL SCI) 205**Public Administration**

Introduction to principles of public administration including the role of administration in modern government and administrative responsibility; organization, personnel management, fiscal operations, budgeting, purchasing, and planning. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK

GE: Social & Behavioral Sciences

Political Science (POL SCI) 206

American Foreign Policy

Examination of conduct and control of American foreign policy in today's complex world; analysis of development of American traditions in foreign policy, machinery which exists for conduct of American foreign relations, factors influencing foreign policy of the United States, and policies and problems relating to countries and regions of the world. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

GE: Social & Behavioral Sciences HD Course

Political Science (POL SCI) 207

U.S. State & Local Government

Study of state and local political jurisdictions and systems, including their powers, organization, functions, development and contemporary problems. This course will examine the American federal system with special emphasis directed to the governmental structures and public policies of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK

IAI: S5 902 GE: Social & Behavioral Sciences

Political Science (POL SCI) 211

Analysis Of White Racism

Nature of white racism: political, economic, social, psychological effects on blacks and whites. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

GE: Social & Behavioral Sciences HD Course

Political Science (POL SCI) 215

Politics Of Community Organization

Analysis of voting trends; discussion with community spokesmen and politicians; class participation in community politics such as voter registration and political education; how Chicago is governed; role of Republican and Democratic parties and independents. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences

Process Technology (340PRTE)

Process Technology (340PRTE) 116

Process Instrumentation I

This course provides an introduction to the instrumentation used in process industries. Student will develop knowledge of instruments and instrument systems used to monitor and control variables in production processes, especially in the petrochemical industry. Terminology, process variables, symbology, control loops and basic troubleshooting will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 124, and Eligibility for MATH 98, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 117

Process Instrumentation II

This course is to provide an overview into the field of instrumentation as it relates to operations within the process industries. In this course, students draw upon their knowledge of equipment, systems and instrumentation, to understand the operation of the entire unit. Students study concepts related to commissioning, normal startup, normal operations, normal shutdown, turnarounds and abnormal situations as well as the Process technician's role in performing the task associated with these concepts within an operating unit. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 116

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 118

Process Technology Equipment

This course provides an overview and introduction into some of the equipment and vessels, and their operations, within the Process Industry. Students will be introduced to process industry equipment fundamentals, such as purpose, terminology, components, operation, and Process Technician's role for operating and troubleshooting the equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 116 and 124.

4 Laboratory hours. 4 Lecture hours. 6 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 124

Introduction to Process Technology

This course provides an introduction to the field of process industry operations and an overview of the roles and responsibilities of process technicians, the environment in which they work, and the equipment and systems that they operate. Students will be introduced to several process industry equipment concepts including purpose, components, and operation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 96 or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 125**Safety, Health and Environment**

Students are introduced to various types of plant hazards, safety and environmental systems and equipment, and to the regulations that underscore process industries. This course will also explore the safety and health hazards of specific hazardous materials, safety data sheets (SDS), labeling and placarding systems, and emergency operations. Regulations and standards from Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA) and Department of Transportation (DOT) will be utilized as primary sources of current hazardous material management. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 124.

6 Lecture hours. 6 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 202**Quality Control**

Introduces many process industry-related quality concepts including operating consistency, continuous improvement, plant economics, team skills, and statistical process control (SPC). Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 118.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 203**Unit Systems**

Introduces the concept of system and plant economics; studies the interrelation of process systems by arranging process equipment into basic systems; explain how factors affecting process systems are controlled under normal conditions; and recognizes abnormal process conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 125.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 204**Operations**

Students are introduced to the operation of process manufacturing including material handling of bulk liquids and solids, and the physics of process technology. The special problems of unit shutdown and startup of chemical plants and refineries is explained as both a business and an environmental problem. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 124 and 203.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 205**Process Troubleshooting**

This course integrates the application of process control with the use of computer-simulated exercises. The use of process control simulations challenges the student to exercise logical troubleshooting techniques to solve operational problems. The course utilizes "what if drills" to enhance troubleshooting skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 340PRTE 118 and 203, and Grade of C or better -OR- Concurrent enrollment in CIS 120.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: DA

Process Technology (340PRTE) 206**Process Technology Internship**

Participating students work in their area of study under the supervision of college personnel and the participating employer. Internship objectives are developed by the student and his/her faculty adviser, with approval of the participating employer, to provide an appropriate and meaningful work-based learning experience. Writing assignments, as appropriate to the discipline, are part of the course.

15 Laboratory hours. 3 Credit Hours.

Offered At: DA

Psychiatric Rehabilitation (PS REHB)

Psychiatric Rehabilitation (PS REHB) 101**Survey Of Psychiatric Rehabilitation**

This course is the first in the series for the Psychiatric Rehabilitation certificate. Courses in the series focus on a rehabilitative approach to servicing individuals with severe mental illness. This approach is based on the premise that consumers set the goals for the rehabilitation team. The survey course has four major themes: understanding psychiatric disability and current approaches to treatment, the mental health system and surrounding legal issues, psychiatric rehabilitation through vocational and skills training, and family and community support systems. The orientation of the course is more practical than theoretical and there is considerable opportunity to observe and practice relevant skill. Consumers serve as guest speakers to highlight issues of empowerment and stigma and to increase understanding of consumer experiences with the mental health system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Psychiatric Rehabilitation (PS REHB) 102**Psychiatric Rehabilitation Skills**

This course is the second in the series for the Psychiatric Rehabilitation Certificate. The orientation of the course is more practical than theoretical, and there is considerable opportunity to observe and practice relevant skills. Students learn basic techniques for conducting interviews for use in assessment, treatment planning, and therapeutic interactions with consumers. Students learn to conduct skills training groups and apply behavioral techniques for implementing programs that promote desired skills. Techniques for intervening in crisis situations and preventing and managing aggression are presented. Writing assignments, as appropriate to the discipline, are part of the course.

Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Grade of C or better in PS REHB 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Repeatable: Yes, up to 4 times

Psychiatric Rehabilitation (PS REHB) 103

Health Skills Psychiatric Rehab

This course examines three-dimensions of wellness: physical, emotional and environmental. Students will learn the fundamentals of physical wellness, including diet, nutrition, exercise, sanitation, disease prevention and control, and special health considerations for persons with severe mental illness. The emotional dimension of wellness includes social support, physical and sensory accommodations, and geriatric and developmental disabilities. Students will learn the essentials of environmental safety, including use of safety equipment and proper body mechanics. Students will develop and practice skills for determining vital signs and documenting their observations. Writing assignments, as appropriate to the discipline, are part of the course.

PS REHB 101

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Psychiatric Rehabilitation (PS REHB) 104

Vocational & Common Living Skills

This course emphasizes the practical applications of vocational and community living skills development for individuals with severe mental illness. Students will observe and practice the fundamentals of vocational rehabilitation, including the duties and tasks commonly required in vocational settings and the development of employment sites. Practical application of current policies affecting employment sites is presented. Networking skills, common state and federal benefit programs and community-based service provision are presented. Writing assignments, as appropriate to the discipline, are part of the course.

PS REHB 101.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Psychiatric Rehabilitation (PS REHB) 105

PRCP Internship

This internship requires a minimum of 240 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The first half (or a minimum of 38 hours) will include five of the following areas: 1) inpatient milieu and general activities; 2) case management activities; 3) vocational training activities; 4) skills training activities; and 5) consumer led activities. The second half of the internship (a minimum of 38 hours) includes interviewing skills and leading skills training groups, and at least one of the following: behavior definition and task analysis, aggression management, assessment and treatment planning, or crisis intervention. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with on-site clinical staff and/or supervision by field placement director is also required. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of (PS REHB 101, PS REHB 102, PS REHB 103, and PS REHB 104).

15 Laboratory hours. 3 Credit Hours.

Offered At: MX

Psychology (PSYCH)

Psychology (PSYCH) 201

General Psychology

Historical survey of psychology and a study of the sensory and perceptual processes: learning, thinking, remembering, emotional behavior, motivation, mechanism of adjustment, and the total personality. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S6 900 **GE:** Social & Behavioral Sciences

Psychology (PSYCH) 203

The Psychology of Women

An application of the general principals of psychological scholarship and research to the subject of gender and women. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Social & Behavioral Sciences

Psychology (PSYCH) 205

Applied Psychology

Applications of principles of psychology in industry, business, the professions, social welfare, and personal adjustment; career selection, industrial efficiency, advertising, sales, the arts; and detection and treatment of delinquents and criminals. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Social & Behavioral Sciences

Psychology (PSYCH) 206

Business & Industrial Psychology

Psychological principles and techniques applied to activities and problems in business and industry; selling, advertising, market research, personnel work, employee selection and training, supervision, and morale. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, TR, WR

GE: Social & Behavioral Sciences

Psychology (PSYCH) 207

Child Psychology

Development, adjustment, and psychological problems of the child from birth through adolescence; relationship of scientific psychological findings to practical methods of child guidance and training by parents, teachers, and others. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S6 903 **GE:** Social & Behavioral Sciences

Psychology (PSYCH) 208**Psychology of Exceptional Children**

Considers children who do not respond to usual classroom teaching procedures. Includes problems of identification, diagnosis and potential assessment; surveys appropriate instruction and remedial teaching of mentally retarded, physically handicapped, gifted, culturally deprived and maladjusted children. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 207 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

GE: Social & Behavioral Sciences

Psychology (PSYCH) 209**Black Psychology**

Relationship of psychology to colonized situation; understanding colonial experience in psychological terms, emphasis on effects for black and white persons in America of status of blacks during and after legalized slavery. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

GE: Social & Behavioral Sciences HD Course

Psychology (PSYCH) 210**Principles of Supervisory Psychology**

Psychological principles applied to problems with employees, both from the standpoint of management and of employees. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered At: DA, HW, KK

Psychology (PSYCH) 211**Social Psychology**

Analyzes development of personality structures and patterns: cultural environment, social roles and status, attitude formation, personality types and measurement of personality. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: S8 900 **GE:** Social & Behavioral Sciences HD Course

Psychology (PSYCH) 213**Abnormal Psychology**

Abnormal behavior and its social significance; symptoms and dynamics of psychological disorders; neuroses and psychosomatic reactions, sociopathic psychoses; consideration of therapies and theories of prevention. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: PSY 905

Psychology (PSYCH) 214**Adolescent Psychology**

Continuation of Psychology 207. Physical, intellectual, educational, personality, and social development of adolescents in contemporary society; emphasis on problems of the adolescents adjustment to personal and social environment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 207 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

IAI: S6 904 **GE:** Social & Behavioral Sciences

Psychology (PSYCH) 215**Psychology Of Personality**

Major personality theories to familiarize the student with systems concerned with comprehensively and dynamically interrelating developmental, motivational, and adaptive aspects of behavior; methods of personality assessment and experimental evidence relevant to the theories will also be considered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

Psychology (PSYCH) 222**Adult Development And Aging**

Introduction to psychological problems, issues, facts, and theories relating to later adulthood and old age; societal values and institutions, socio-economic variables, biological and psychological changes, perception, cognition, psychosocial development, personality factors, sexuality and relationships, work and skill issues, adjustment and coping, psychopathology, and therapeutic intervention. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

IAI: S6 905 **GE:** Social & Behavioral Sciences

Psychology (PSYCH) 223**Death, Dying & Bereavement**

This course will introduce students to psychological problems, issues, facts, theories, opinions, and controversies pertaining to death or loss, the dying process, and bereavement as a response to loss. It will deal with societal values, institutions, psychological variables, the nature of dying and bereavement, the effects of loss on the surviving individual, adjustment and coping problems, relevant behavioral and emotional reactions, and alternatives to societal institutions surrounding death. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Psychology (PSYCH) 224

Life Span Developmental Psychology

Life Span Developmental Psychology is an introductory course in developmental psychology covering fundamental biological, cognitive, and psychological factors as they apply to the whole span of development. Theories, research design and findings, facts, and principles, as they apply to each age level, will be examined. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S6 902 GE: Social & Behavioral Sciences

Psychology (PSYCH) 240

Research and Statistical Methods in the Behavioral Sciences

Study of methods used in the systematic study of psychology, including psychometric concepts, understanding and application of statistical operations (computer-based), and critique of scholarly empirical reports. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.
2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK, TR

Psychology (PSYCH) 299

Special Topics in Psychology

Special topics in Psychology will be discussed along with appropriate lab and/or field trip activities. New developments in the field will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of six variable credits. Consent of Department Chairperson required for repeatability.

Grade of C or better in PSYCH 201 or consent of Department Chairperson.
6 Lecture hours. 6 Credit Hours.

Offered At: DA, HW, KK

Repeatable: Yes, up to 4 times

Radiography (RADIOGR)

Radiography (RADIOGR) 101

Intro To Radiation Sciences

Fundamental concepts of medical imaging and the radiation sciences; includes origins of the profession, common terminology and chemicals; technical factors influencing development of the radiograph and technical factors which produce the image. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 102

Attitudes In Patient Care

Skills needed for proper patient care; includes physical and psychological skills necessary to cope with various situations. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 105

Imaging Physics

Structure of matter, electric circuitry, especially the x-ray circuit, interactions between ionizing radiation and matter and principles necessary for production of radiographic image. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 115

Basic Prins Of Image Produc

Analysis of various technical factors and accessories which affect radiographic image; includes basic qualitative factors of image production, and laboratory experiments. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiologic Program

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 124

Intro To Patient Care

Proper positioning and basic nursing procedures necessary for patient care; includes proper placement and manipulation of patient and equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 128

Image Evaluation

Analysis of image and quality of radiographs images submitted for interpretation; covers patients size, cooperation and pathological condition relative to and influencing accuracy and quality of resultant image. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 131

Radiographic Procedures I

Proper positioning of patient for demonstration of suspect pathology of abdomen and its contents, correlated with course in anatomy and physiology, and routine and contrast media procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 140

Intro To Clinical Education

Physical and technical skills needed to apply ionizing radiation to human beings; clinical orientation and assessment to determine professional preparedness. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

20 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 141**Radiography Clinical Education I**

Orientation and initial skills development in basic radiographic procedures; visualization of abdomen and its contents stressed to prepare student for further study in major area of specialization; includes communication, operation of equipment, patient care and technical skills development. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

20 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 200**Pathology**

Covers disease process with radiographic manifestations; laboratory sessions include use of radiographs and images from other modalities to visualize various types of pathologic conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 202**Radiology Management**

Administration, purchasing and personnel control; practical experience in department administration. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 205**Applied Radiographic Techniques**

Practical applications of previously learned concepts; effects of technical factor selection, use of accessories and changes in patient type and condition. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 206**Imaging**

The components of radiological imaging system chains; imaging systems will be explored, including current systems and new and emerging modalities. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 208**Radiobiology**

Effects of radiation on cells, organs, and organisms and implications on present and future populations, use of ionizing radiation in internal and external treatment of benign and malignant disease. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 232**Radiographic Procedures II**

Positioning and patient-care skills applied to additional body systems and correlated with clinical study; proper positioning of patient for demonstration of suspect pathology correlated with previous procedures; includes skeletal and urinary systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 233**Radiographic Procedures III**

Study of additional body systems; includes procedures less frequently performed and those requiring special skills or equipment; procedures covered will not normally require invasive techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 234**Special Radiographic Procedure**

Procedures frequently performed in modern department but which employ surgical or other invasive techniques and injection of contrast media into circulatory system; covers emergency procedures and pertinent aspects of some pharmaceuticals. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 242**Radiography Clinical Ed II**

Application of concepts learned in related radiography classes; emphasis on progression from role of observer to assistant, then to relative independence under supervision of qualified clinical instructors, radiographers and faculty. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 243**Radiography Clinical Education III**

Progression from role of assistant to greater independence under supervision of qualified clinical instructors. Quality and related aspects of special consent will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 244**Radiography Clinical Education IV**

Progression of student to full clinical independence, upon demonstrating clinical competency. Student can refine skills through independent practice. Includes field experiences in elective specialization. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 261

Patient Care and Pathology

This course is designed to provide requisite theories and processes related to mammographic manifestations; proper positioning and basic procedures necessary for patient care; includes proper placement and manipulation of patient and equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 262

Anatomy, Physiology and Procedures

Proper positioning of patient for demonstration of suspect pathology of breast, correlated with course in anatomy and physiology, and routine procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 263

Imaging Production and QA

Analysis of various breast imaging and systems and quality of images submitted for interpretation. Practical applications of previously learned concepts; effects of technical factor selection, use of accessories and changes in patient type and condition. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 265

Mammography Clinical Education

The program strives to empower students of diverse backgrounds and abilities to develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of mammographic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice, and professional development are discussed and evaluated. The program provides graduates with a level of preparation to become licensed, certified and employed entry-level mammographers upon completion of all program requirements.

Admittance into the Mammography Advanced Program.

12 Clinical hours. 1 Lecture hours. 5 Credit Hours.

Offered At: MX

Reading (READING)

Reading (READING) 99

Developmental Reading Skills I

Provides skills necessary for efficient reading of textbooks and other materials. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: KK, OH, TR, WR

Reading (READING) 125

Developmental Reading Skills II

For students who need to improve their reading skills; efficient reading of textbooks and other materials including work in mechanics of reading, vocabulary development, comprehension, and rate of reading. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in READING 99, COMPASS Reading (65-79), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

Reading (READING) 126

Structural Analysis & Critical Reading

Ability to read and to analyze college level materials. For students with advanced reading skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in READING 125, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Respiratory Therapy (RESP TC)

Respiratory Therapy (RESP TC) 114

Basic Respiratory Care

Theoretical and protocol based applications of, indications for, and assessment of efficacy and patient response to basic respiratory care modalities in the cardiopulmonary compromised patient population. Includes such therapeutic modalities as: O2/gas therapy, aerosol and humidity therapy, bronchial hygiene, and hyperinflation therapy. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Completion of ENGLISH 101, BIOLOGY 116 or BIOLOGY 226, BIOLOGY 227, CHEM 121 or higher, and MATH 118 or higher excluding MATH 140 with a C or better.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 115

Cardiopulmonary/Renal Anatomy & Physiology

Study of cardiac, pulmonary and renal structure and function with emphasis on physiology as applied to the practice of respiratory care. This includes the integrated functions of ventilation, respiration, gas transport and acid base regulation. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Acceptance into the RESP TC program.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 116

Patient Assessment

Introduction to the role of a respiratory therapist in the hospital setting as a member of a health care team. Includes professional behavior, ethics, legalities, communications, medical terminology, medical charts and cardiopulmonary assessment. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

CHEM 121; MATH 118, ENGLISH 101; BIOLOGY 116 and BIOLOGY 120.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 117**Respiratory Pharmacology**

Anatomy and physiology of the nervous system as applied to the pharmacodynamics of bronchodilation and the effects various drugs have on the cardiovascular and pulmonary systems is emphasized. Indications, dosages, routes of administration, contraindications, adverse effects and dose calculations will be discussed. Clinical simulation, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

CHEM 121; MATH 118, ENGLISH 101; BIOLOGY 116 and BIOLOGY 120.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 118**Respiratory-Microbiology**

Applied microbiology and infection control practices as related to the hospital environment and respiratory care modalities and equipment. OSHA, JCAHO infection control practices including screening tests and risk factors as well as understanding of all hospital isolation techniques is presented. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

CHEM 121; MATH 118, ENGLISH 101; BIOLOGY 116 and BIOLOGY 120.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 119**Respiratory Care Lab I**

Introduction to basic equipment: design, function, troubleshooting and care of respiratory therapy devices and circuitry used to deliver therapy, humidity and aerosol therapy, bronchial hygiene, hyperinflation modalities. Professionalism, communication techniques, monitoring will be practiced in conjunction with laboratory simulated hospital procedures and situations. Basic CPR certification and all proficiency testing of clinical procedures will be done. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

CHEM 121; MATH 118, ENGLISH 101; BIOLOGY 116 and BIOLOGY 120.

6 Laboratory hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 127**Clinical Practice I**

Introduction to the hospital setting and the set-up, maintenance and discontinuation of oxygen; aerosol and humidity therapy; intermittent modalities to include bronchial hygiene and hyperinflation therapies. Clinical simulations, tutorials and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 114, 116, 117, 118, 119 or Consent of Department Chairperson.

12 Laboratory hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 129**Clinical Practice II**

Supervised clinical course with an introduction to airway management techniques, basic ventilator care techniques, pediatric respiratory care and refinement of floor therapy skills with acute patients. Clinical simulations, tutorials and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 115, 127, 137, 139, 141 or Consent of Department Chairperson.

12 Laboratory hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 137**Advanced Pathology & Clinical Application**

Acute and chronic respiratory and cardiac pathological processes and their associated renal complications and compensations: diagnostic testing including arterial blood gasses, basic radiographic interpretation, pulmonary function studies, interpretation of laboratory studies, treatment and prevention of disease processes. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 114, 116, 117, 118, 119 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 139**Respiratory Care Lab II**

Introduction to hospital specific policies and procedures, continuation of application and practice of respiratory care modalities, now applied to the critically ill patient. Emphasis on airway management, mechanical ventilators, circuitry, mechanical ventilation management and techniques. Comprehensive laboratory competency testing. Clinical cases presented as technical management corollaries. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 114, 116, 117, 118, 119 or Consent of Department Chairperson

4 Laboratory hours. 2 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 141**Ventilatory-Mechanics I**

Theory of basic mechanical ventilator function, methods of ventilation, modes, classification of ventilators, demonstration of basic equipment and circuitry. Airway management indications, selection of type, intubation, management assessment, hazards, extubation and troubleshooting the artificial airway will be covered. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 114, 116, 117, 118, 119 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 146**Ventilatory Mechanics II**

Introduction to the theory of mechanical ventilation in the adult patient. Selection of ventilator parameters, commitment, maintenance, weaning. In-depth presentation, discussion, demonstration of specific adult ventilator systems, CPAP, BiPAP circuits, practice and testing. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 115, 127, 137, 139, 141 or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 200**Respiratory Care Lab III**

In depth presentation, discussion, demonstration of specific pediatric/neonatal ventilator systems, CPAP circuits, practice and testing. Continuation of adult ventilator practice, practice and integration of other critical care procedures. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 129 and RESP TC 146, or Consent of Department Chairperson.

4 Laboratory hours. 2 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 222

Clinical Practice III

Supervised clinical course providing advanced airway management skills, advanced ventilator techniques and diagnostic procedures in the hospital setting. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 129 and RESP TC 146 or Consent of Department Chairperson.

12 Laboratory hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 224

Clinical Practice IV

Supervised clinical course providing advanced airway management skills, advanced adult ventilatory techniques, neonatal respiratory procedures and advanced cardiopulmonary diagnostic procedures. Exposure to alternate sites of care. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 200, 222, 225, 227, or Consent of Department Chairperson.

24 Laboratory hours. 4 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 225

Age Specific Care

Introduction to age appropriate considerations of patient education, application of therapeutic modalities and manifestations of cardiopulmonary diseases throughout the human life span. This course will also address managed care, management, patient care plans and alternate sites of care. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 129 and RESP TC 146, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 227

Critical Care Services

Advanced cardiopulmonary monitoring is presented with emphasis on ECG interpretation and hemodynamic and exhaled gas monitoring and therapeutic interventions. Chest radiograph, CT and MRI interpretation will be introduced. Pharmacological agents that affect the cardiopulmonary, renal, and acid base regulating systems; paralyzing agents, analgesics, sedatives, administration safety, dose ranges, monitoring response to and basic fluid and electrolyte balance will be presented. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 129, RESP TC 146, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 230

Advanced Cardiopulmonary Monitoring

Case studies with PFTs, blood gases, hemodynamic profiles, ECGs and related diagnostic testing will be presented along with related pathophysiological changes of cardiopulmonary diseases. Advanced adult, pediatric, neonatal cardiopulmonary life support will be covered. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 200, 222, 225, 227, or Consent of Department Chairperson.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 250

Cardiopulmonary Rehabilitation Home Care

Care of patients with chronic cardiopulmonary disease in a sub-acute setting and in their homes. Long term therapeutic prescriptions, equipment selection, cleaning and asepsis of equipment in the non-acute care setting. Pulmonary rehabilitation goals and programs presented along with adjunct exercises, equipment and assistive devices. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 200, 222, 225, 227, or Consent of Department Chairperson.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Respiratory Therapy (RESP TC) 260

Advanced Specialty Topics

Respiratory care research topics presented, ethics and board examination preparation, computer-assisted clinical simulations along with branching logic, latent image practice and mock certification and registry examination preparation and practice. Resume, portfolio and job interview preparation will also be included. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

RESP TC 200, 222, 225, 227, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Short Term Health (STHLTH)

Short Term Health (STHLTH) 158

EKG Technician

Students will learn the skills needed to become an EKG/cardiovascular technician in this comprehensive course. Students will learn the anatomy and physiology of the heart, medical disease processes, medical terminology, medical ethics, and legal aspects of patient contacts. Students will also be introduced to the associated areas of laboratory assisting, and electrocardiography. The hands-on practice the students receive will help in preparing for the national exam administered through (NCCT) National Center for Competency Training. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Short Term Health (STHLTH) 174**Patient Care Technician Training**

This course is designed for students interested in allied health fields. The course introduces students to the healthcare delivery system, health professions, primary patient care, fundamental clinical skills and healthcare communications. Safety, healthcare professionalism, employability skills, basic infection control, HIPPA, and OSHA are also included. The course will prepare individuals to accurately perform electrocardiograms as a supportive diagnostic procedure. Basic arrhythmia recognition will be taught to enable the student to recognize familiar ECG patterns including major life threatening rhythms. Additionally, the student will learn basic venipuncture techniques and human specimen management for diagnostic purposes. The course will consist of theory and lab experience to promote competence in phlebotomy techniques and ECG acquisition. Writing assignments, as appropriate to the discipline, are part of the course.

Placement into ARC as determined by the CCC Placement Test, the RTW (Read to Write), successful completion of the course immediately preceding ARC in the course sequence based on departmental, faculty-approved assessment, or Consent of Department.

4 Laboratory hours. 6 Lecture hours. 8 Credit Hours.

Offered At: MX

Short Term Health (STHLTH) 624**BNA Fundamentals/Clinical**

This course is part of the curriculum designed to prepare individuals to work in the healthcare industry as Certified Nursing Assistants, (CNAs). The student is introduced to the discipline of nursing and the basic approaches of patient care. The concepts of caring for the whole person, nursing practice, multi-cultural society, and communication are addressed as students assist the licensed nurse and other members of the healthcare team to meet the basic health needs of older persons is studied, and practiced in the classroom laboratory in addition to the clinical settings. Writing assignments and testing of knowledge as appropriate to this discipline are part of this course. Clinical laboratory sessions include pre-conference and post-conference at area clinical facilities. Theoretical concepts and clinical skills contained within the course are consistent with basic nursing assistant skill and standards developed by the Illinois Department of Public Health.

Eligibility for ENGLISH 96 and MATH 98 or consent of Department Chairperson.

4 Laboratory hours. 6 Lecture hours. 8 Credit Hours.

Offered At: MX

Short Term Trd/Indstrl/Trnsprt (STTRDE)

Short Term Trd/Indstrl/Trnsprt (STTRDE) 104**Dev. Your Family Child Care Business**

Developing Your Family Child Care Business is a facilitated interactive business development program to help individuals launch or grow successful family child care businesses. This twelve-session program includes: Identify market advantages/disadvantages related to the business location; develop promotional strategies; begin the process of pricing services and understanding finances and setting policies for the child care center. Writing assignments, as appropriate to the discipline, are part of the course.

1.5 Lecture hours. 1.5 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 106**Road Driving**

Designed for individuals with little or no commercial truck driving experience, this course provides theoretical foundation to become a commercial driver. Students will learn the regulations that governs each classification and why commercial vehicles are identified by classifications. Through this course, students will be eligible to obtain their commercial driver's license. Upon successful completion, students will receive a certificate of completion and a Class "A" Commercial drivers license. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 148 and 337, and earned their Commercial License Permit (CLP). Must be 18 years of age or older, possess a valid driver's license, a good driving record, and pass both a physical exam and an alcohol/drug test.

4 Laboratory hours. 2 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 116**Class B-Passenger Endorsement**

The purpose of this course is to provide students with the necessary training required to safely transport passengers in commercial in motor vehicles. Students receive training in pre-trip and post-trip inspection, loading and unloading, use of brake-door interlocks, passenger transportation and prohibited practices. Upon completion of this course students will receive a certificate of completion and a Passenger Endorsement on their Commercial Drivers License.

1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 117**Class B-School Bus Endorsement**

The purpose of this course is to provide students with the necessary training required to become safe school bus drivers. Training will include pre-trip and post-trip inspection, loading and unloading, transporting students with special needs, proper securement of child safety seats, evacuation, railroad crossings and school bus operations. Upon completion of this course, students will receive a certificate of completion and a School Bus and Passenger Endorsement on their Commercial Drivers License.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 118**Forklift Operator**

The Forklift Operator course prepares students for the workplace. Upon completion of this course, students will have a working knowledge of the basic need and use of the lift truck. Students will also be able to safely inspect and operate the lift truck. This course includes theory and practical training.

1 Laboratory hours. 1.5 Lecture hours. 2 Credit Hours.

Offered At: OH

Repeatable: Yes, up to 1 times

Short Term Trd/Indstrl/Tnsptr (STTRDE) 119

Unarmed Security Guard

Intensive instruction in the technical aspects of private security employment. Emphasis is on legal rules, security techniques and processes, life safety, and public relations. Successful completion satisfies the 40-hour basic training requirement for unarmed private security certification under Illinois revised statutes. This course is in compliance with the Illinois Public Act 93-0438 effective August 5, 2003 and the Private Detective, Private alarm, Private Security and Locksmith Act of 2004. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 126

Machining Processing I

This course is an introduction to machine tools and processes associated with the machine trade. Topics include industrial safety and environmental protection, basic hand tools, shop floor math, job planning, benchwork, layout, power saw operations, drilling machines, milling machines, and print readings. Upon completion, students should be able to perform the basic operations of measuring, layout, drilling, sawing, and milling. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 127

Machining Processes II

This course further develops the students knowledge, skills and abilities in machining building on the fundamental principles covered in Machining Process I. Students manufacture projects that require precision layout, set-up, machining, and inspection. These projects require students to perform various operations on engine lathes, and surface grinders. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 126.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 128

Computer Numerical Control Fundamentals

The course is designed to enable students to become familiar with CNC machinery as it applies to the operator. The information presented will include introduction to CNC set-up, tooling, operation, and trouble shooting. Writing assignments, as appropriate, are the part of the course.

Grade of C or better in STTRDE 126 and 127 or with the consent of the instructor.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 129

CNC Milling Operations & Programming

This course introduces the programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming, troubleshooting of this equipment in the manufacturing setting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 128.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 130

CNC Turning Operations & Programming

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming and troubleshooting of this equipment in the manufacturing setting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 129.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 131

Machine Shop Math I

This course is designed to provide student with the basic principles of Mathematics with applications that relate to typical machine shop problems. Topics to be studied include the review of fractions, decimals, measurements, ratios, proportions, and percent. An introduction to algebra, measuring systems, precision and accuracy as they relate to machining will also be included in the course. Electronic calculators are required for this course. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 132

Introduction to Welding Principles

This course is designed to introduce students the principles of basic welding techniques, welding shop measurement, layout work, Mig and Tig welding operations and various equipment used in welding shops. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 133

Intermediate Welding

Course is designed to continue development of knowledge and skills in Arc, MIG and TIG welding processes. Students will complete various common joints in mild steel in the horizontal and vertical positions using single and multi-pass welds as assigned. Welding safety will be emphasized. Students will gain practice in metrology, weld inspection and an introduction to weld testing. Writing assignments, as appropriate to the discipline, are part of the course.

STTRDE 132 with a grade of C or better or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Tnsptr (STTRDE) 134

Blueprint Reading for Welders

This course prepares student to interpret blueprints and apply the information contained therein in the welding and fabrication trades. Emphasis is placed on the relationship between the two-dimensional drawing and the actual three-dimensional object. Basic and complex welding symbols will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 135**Advanced Welding**

Course is designed to advance development of knowledge and skills in Arc, MIG and TIG welding processes. Arc and MIG students will complete various common joints in the vertical and overhead positions with mild steel using single and multi-pass welds as assigned. TIG welders will weld mild steel, aluminum and stainless steel in the horizontal and vertical positions. Welding safety will be emphasized. Students will continue practice in metrology, weld inspection and interpretation welding drawings and symbols. Writing assignments, as appropriate to the discipline, are part of the course.

STTRDE 133 with a grade of C or better or Consent of Department Chairperson.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 136**Basic Horticulture**

This course will introduce students to basic concepts of Horticulture with emphasis on basic anatomy, terminology, and functions of plants and professions surrounding culture and use of ornamental plants. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 137**Managing Urban Green Space**

This subject will provide an understanding of how to manage urban green spaces. The study policy, planning and process issues, community consultation, structures, systems and contractual relationships, landscape documentation, project planning and implementation, life-cycle analysis of landscape elements, urban vegetation planning, implementation and maintenance, sustainability concepts and examples. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136 Basic Horticulture.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 138**Horticultural Plant Science**

This subject covers the structure and function of plants and plant tissue, cell physiology, energy transformations, metabolism, photosynthesis, plant nutrition, water and nutrient uptake and transport and whole plant physiology. By the conclusion of this subject the student should be able to demonstrate their, of the and of the integration of these processes in the physiology of plant growth. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 139**Urban Horticultural Floral**

This course will provide the student with a working knowledge of plant science, anatomy, morphology, physiology, taxonomy, reproduction and genetics as they relate to horticultural ornamental plants. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136 - Basic Horticulture

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 140**Greenhouse Crop Production**

This course will cover information on the production of greenhouse crops and the cultural practices required for growth. Subjects including seeding, watering, fertilization, containers, growing Medias, temperature control, insect and disease control will be covered. Greenhouse plants and pot crops will be grown throughout the semester. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136 - Basic Horticulture

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 141**Soil Fertility and Assessment**

This course introduces students to the ways that farmers and gardeners develop and maintain soil fertility in sustainable farming systems. Subjects include introduction to the tools, techniques and rational behind soil cultivation, soil analysis, soil physical properties, components, nutrient deficiency, soil chemistry, and soil fertility. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in CE TRDE 136- Basic Horticulture.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 142**Management of Plant and Animal Invasion**

This course will provide insight and learning of the invasions that are natural ecological phenomena. Dispersing individuals encounter suitable habitat, establish, spread and evolve. In this way, species have radiated outwards from their origins, colonized distant offshore islands, and species have spread in response to changes in climate. Human-induced invasions of plants, animals and diseases in modern times have dramatically altered the scales of time and distance over which invasions take place. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136 - Basic Horticulture.

4 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 143**Sustainable Farming Practices**

This course is designated for those interested in or presently working in the area of grounds care and maintenance. Areas of study including pruning, fertilizing, pesticide use, digging and replacement of landscape plants, general turf care and maintenance of equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136, 140 and 141.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 144**Practicum/Internship**

This Practicum/Internship is designed for those who have successfully completed the course work for all courses associated with the Sustainable Urban Horticulture program. This Practicum/Internship will allow the student to experience the full vision and mission of the program. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in STTRDE 136, 137,138,139, 140, 141,142,143 and Consent of Department Chairperson.

10 Laboratory hours. 5 Credit Hours.

Offered At: DA

Short Term Trd/Indstrl/Trnsprt (STTRDE) 145

Class C Driver Training

This course provides in-depth coverage of the laws, rules, and regulations that are applicable to the operation of both commercial and non-commercial motor vehicles. Students gain knowledge and skills in the area of vehicle inspection, pre-testing, skill operations, and defensive driving techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Must be at least 21 years of age, possess a valid driver license, eligible for Department of Transportation Medical Card, and physically able to operate the vehicle and maintain negative drug/alcohol testing.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 147

Passenger Driver Practice

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Students will learn the regulations and actual applications that governs each classification and why commercial vehicles are identified by classification. Students will obtain their Class B Commercial Driver's License Learner's Permit.

Prospective student must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a physical examination. Additionally they must successfully obtain the clas

8 Laboratory hours. 4 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 148

Commercial Driving Training Practice

This course is designed as the continuation of the theory course, this course provides students with behind-the-wheel experience leading them to present their driver's exam and obtaining the Illinois Commercial Driver's License. Writing assignments, as appropriate to the discipline, are part of the course.

Student must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated thru a court ordered motor vehicle report) & pass a physical exam. Grade of C or better in STTRDE 0337 & obtain a CDL learner's permit.

14 Laboratory hours. 7 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 149

Commercial Driver/Refresher Training

This course is designed for individuals with commercial driving experience, this course provides drivers with a review of the current rules, regulations and requirements to which all commercial drivers must adhere. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 337

Commercial Driver Training Theory

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Through this course, students will obtain their commercial driver's license learner's permit. Writing assignments, as appropriate to the discipline, are part of the course.

Prospective students must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a physical examination and drug/alcohol test.

1 Laboratory hours. 6.5 Lecture hours. 7 Credit Hours.

Offered At: OH

Short Term Trd/Indstrl/Trnsprt (STTRDE) 338

Passenger Driver Theory

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Through this course, students will obtain their commercial driver's license learner's permit. Writing assignments, as appropriate to the discipline, are part of the course.

Prospective students must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a Department of Transportation (DOT) physical examination.

5 Lecture hours. 5 Credit Hours.

Offered At: OH

Short Trm Busn/Profession Srvc (STBPS)

Short Trm Busn/Profession Srvc (STBPS) 168

Illustrator

Adobe Illustrator CS4 is the powerful graphic program used by visual artists and graphic design professionals. It provides unique illustration tools for drawing, painting, text manipulations, page layout, title design and optimization for the web. This class focuses on creating compact, vector graphics to be used in web pages or exported to Flash to create complex web animation. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: TR

Short Trm Busn/Profession Srvc (STBPS) 238

IL Real Estate Broker PreLicense

This course was designed to meet the 75-hour licensing curriculum requirements for real estate brokers as set forth by the State of Illinois. Topics included are Illinois license law, agency, state and federal law, relationships with employing brokers, working with sellers and buyers, real property, fair housing, ownership, contracts, real estate valuation, environmental issues, construction, real estate closings, advertising, property management, and commercial real estate. The course mixes presentation of facts, concepts, and key terms with real-life scenarios to illustrate the topics being taught, as well as assessment of such. Writing assignments, as appropriate to the discipline, are part of the course.

COMPASS TEST SCORES: Reading Score: 72 or higher Math Score: Algebra scores of 49 or higher

6 Lecture hours. 6 Credit Hours.

Offered At: DA

Short Trm Busn/Profession Srvc (STBPS) 239**IL Broker Applied Real Estate Principles-Interactive**

This course includes student participation in five three-hour interactive lessons with an instructor to apply the knowledge learned in the Illinois Real Estate Broker Pre-License topics course. Fifteen (15) hours must be classroom or interactive media required by the Illinois Department of Financial & Professional Regulation to complete the 90-hours of Real Estate training to be allowed to test for the Real Estate Broker's exam. Each interactive lesson begins with a review of principles, concepts, requirements for compliance and violations, summary of best practices, and/or applicable laws/licensee requirements. Students will also participate in a variety of interactive activities (i.e., quizzes, content review exercises, class and small group discussion) where they will apply their knowledge to a variety of real-world scenarios designed to provide valuable analysis and decision-making experience. Writing assignments, as appropriate to the discipline, are part of the course.

Successful completion of STBPS 238 -IL Real Estate Broker Pre-Licensure course.

1 Lecture hours. 1 Credit Hours.

Offered At: DA

Short Trm Busn/Profession Srvc (STBPS) 240**Introduction To Pc Hardware**

This course begins the introduction to PC technology as identified by the objectives in CompTIA's A+ certification. The class provides the framework for understanding how a computer works from the inside out. It is the perfect start into PC hardware and operating systems. 14 hrs. \$399

1 Lecture hours. 1 Credit Hours.

Offered At: DA

Short Trm Busn/Profession Srvc (STBPS) 241**Pc Repair & Troubleshooting**

Students will learn about PC hardware and system maintenance procedures. Topics include a detailed look at hardware components, power supply, upgrades, networking, maintenance and troubleshooting. In hands-on exercises, students will assign configuration settings, upgrade systems, configure SCSI devices, install printers and monitors, remove and replace components, and troubleshoot POST errors. 35 hrs. \$899

2.5 Lecture hours. 2.5 Credit Hours.

Offered At: DA

Short Trm Busn/Profession Srvc (STBPS) 242**PC Operating Systems**

Students will learn installation procedures, dealing with legacy systems, creating and using emergency boot diskettes and managing printers and other devices. Other topics include networking, communication protocols, Internet access and troubleshooting. In hands-on exercises, students will install Windows operating systems, manage Windows devices, use the FDISK utility, perform backups, manage system files, configure networks, configure Internet access, and troubleshoot operating system errors. 35 hrs. \$899

2.5 Lecture hours. 2.5 Credit Hours.

Offered At: DA

Social Science (SOC SCI)

Social Science (SOC SCI) 101**General Course I Social Science**

A survey of subject matter and concepts selected from the disciplines of anthropology, psychology, and sociology. Writing assignments, as appropriate to the discipline, are part of the course

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S9 900 **GE:** Social & Behavioral Sciences

Social Science (SOC SCI) 102**General Course II Social Science**

A survey of subject matter and concepts selected from the disciplines of economics, geography, history, and political science. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S9 901 **GE:** Social & Behavioral Sciences

Social Science (SOC SCI) 103**Intro To Applied Social Science**

General introduction to influence of modern scientific technology on the life of the worker, the study of social problems that affect lives of working people in the years to come, and contribution of social science to development of social participation skills necessary for vocational and marital success. Applicable for A.A.S. degree only. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Social Science (SOC SCI) 104**Special Topics in the Social Sciences**

This course focuses upon selected topics in social sciences. The course is offered to students interested in the characteristics of group life, the effect of the local action on the global scene, and the interrelationships between society culture, and the individual. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: MX

Repeatable: Yes, up to 1 times

Social Science (SOC SCI) 105**American Social Issues**

Critical study of selected current social problems such as labor relations, the welfare system, civil rights and automation. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

GE: Social & Behavioral Sciences

Social Science (SOC SCI) 106

North & South American Social Development

Structure and culture of modern urban and industrial development; topics include industrialization and leisure, their consequences for status and class organization in the work place and social organization in the wider community, social inequality, social stratification and mobility, and changing values and social structures. Writing assignments, as appropriate to the discipline, are part of this course

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA

GE: Social & Behavioral Sciences

Social Science (SOC SCI) 110

Introduction to Global Studies

To prepare students for an increasingly interdependent world, this multi disciplinary core course cultivates an active conversation about the interconnected global context of our lives. The class examines shared and divergent histories, politics, aesthetics, communication practices, cultures, and economies, as well as human impact on the environment by paying close attention to contradictions among ethnic and religious identities, strong national affiliations, and the fluidity of nation-state borders. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

HD Course

Social Science (SOC SCI) 221

Black Economics

African-Americans as producers rather than consumers, evaluation, understanding of black power and militancy. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences HD Course

Social Service (SOC SER)

Social Service (SOC SER) 101

Introduction To Social Work

Concepts, principles, and processes encountered by social service workers; questions of motivation, acceptance, attitude, techniques of listening and interviewing. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 100, or Grade of C or better in ENGLISH 98, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 102

Introduction To Gerontology

An overview of elder issues including the social, psychological and physical aspects of the aging process. The course will also examine the economic and social impact of the growing elderly population on US society and the global community and will explore career opportunities in this expanding field. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Social Service (SOC SER) 103

Aging And Social Policy

A study of government policy to familiarize students with programs at the federal, state and local levels that address elder issues from housing to health care to employment to nutrition and recreation. Students will learn how public policy is created, the role of elder advocacy groups in shaping legislative agendas and issues affecting current and future government programs such as Medicare and Medicaid. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 105

Physiology of Aging

An exploration of the basic changes that occur in the physical make-up of men and women as a result of the aging process. Discussion will include the causes and effects of disease and debility, as well as health assessment measures, health care options and health maintenance strategies. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 106

Aging And The Family

An introduction to family theory as found in significant sociological traditions. The course will discuss the effect of the aging process on extended and nuclear families, the changing roles of parent and child, the family stresses and rewards of care giving, the role of aging siblings, relationships between the generations and the financial and psychological impact of caring for the frail elder in the family setting. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 107**Aging And Leisure**

An exploration of the opportunities that are available to the elderly from the well years to the frail years, for personal enrichment, intellectual development, volunteering, health improvement, travel, spiritual growth and second careers. Students will learn the ways in which a majority of an individuals older years may be a time of great opportunities for growth, development and service. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 108**Racial Healing Methodology**

Racial Healing Methodology course aims to jettison the false belief in a hierarchy of human value and replace that archaic notion with a reverence and appreciation for the equal and interconnected nature of the human family. The course will cover the five components of the racial Healing Framework which are Narrative Change, Racial Healing and Relationship Building, Separation, Law, and Economy. The ultimate goal of the Racial Healing Methodology course is to expand the community of healers by training, empowering, and emboldening youth, and youth workers. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Social Service (SOC SER) 109**Report Writing for Social Service Aides**

Introduction to records, reports, and forms required in social agencies; report writing and record keeping. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, Grade of C or better or Concurrent enrollment in SOC SER 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 201**Principles of Social Work Practice**

Introduction to social welfare resources of the community; discussion of methods to help persons make use of these resources, including analysis of the helping relationship, role of non-professional worker, problem-solving approach to individual, family, and community problems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101 and SOC SER 101.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 202**Aging And Human Services**

This course explores the history of gerontological social work and the methods employed in providing the greatest benefits of human services to the elderly population. Students will learn the practical principles of case management from interviewing to evaluation and become familiar with the characteristics of the service settings in which they will encounter the elderly in the role of Gerontology Specialist. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (SOC SER 102 and SOC SER 106), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 203**Inter Communication with the Elderly**

This course is a study of the basic principles of communication as employed in counseling and human services settings. It will emphasize the development of the listening, speaking, behavioral and attitudinal skills that are required by gerontology professionals at the level of social work assistant. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (SOC SER 102 and SOC SER 106), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 204**Cross-Culture Studies In Gerontology**

A comparative study of aging in a variety of cultures from traditional to modern. Students will learn that the attitude of a culture towards its aging population is based on the complex set of interrelationships between its social, religious and historical traditions. The course will examine Native American, traditional Chinese, modern European, dominant and minority American cultures and their attitudes toward the elderly and how these attitudes are crystallized into social policy. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 102, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

HD Course**Social Service (SOC SER) 206****Human Development and Aging**

This course builds on human growth and development, specifically designed to focus on development tasks relative to those who are fifty (50) and beyond. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

Social Service (SOC SER) 208**Racial Healing Practicum**

Fieldwork placement at a community agency employing Racial Healing Circles Methodologies. Writing assignments, as appropriate to the discipline, are part of the course.

Completion of or concurrent enrollment SOC SER 101, SOC SER 212, and SOC SER 108, or consent of Chairperson.

0.5 Lecture hours. 3 Practicum hours. 1 Credit Hours.

Offered At: KK

Social Service (SOC SER) 212

Intro To Group Process

For persons who work with groups; parent groups, community action programs, recreation programs, church groups, or in child care programs. How individuals function as group members; role of the leader; encouraging participation and group action for achieving group goals. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in English 101, Grade of C or better or concurrent enrollment in SOC SERV 101 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 213

Advanced Group Process

For students who desire to develop skill in working with groups; discussion of techniques for working most effectively with different types of groups. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 212.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Social Service (SOC SER) 215

Social Prob & Soc Action I

For group workers, community leaders, and teachers. Problems of urbanization, industrialization, cultural and educational deprivation, juvenile delinquency, and techniques and programs organized to combat these problems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 228

Methodology For Social Work

Principles of casework applied to work with families; community resources available to meet economic, emotional, and health needs, and techniques for implementing referrals for such services. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in ENGLISH 101, (CHLD DV 101 and CCHLD DV 102 and SOC SER 101 and SOC SER 201), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 229

Social Service Practicum

Field work placement in a family welfare agency 20 hours per week, 8 or 16 weeks; 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in Social Service 101,109,201,215,228 and Child Development 101,102, or Consent of Department Chairperson. Must attend a mandatory orientation, prior acceptance of program and secure a practicum site before the first day of class.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 230

Domestic Violence Practicum

This course will provide students with both a micro and macro perspective of a silent problem that is drastically impacting society today-Domestic Violence. This course will introduce students to the history of domestic violence, and theories and methods used to study domestic violence. This course will be devoted to discussions of different forms of domestic violence including elder abuse, child abuse, and intimate partner violence. There will be dialog of how violence is shaped by social location, race, class, and gender. Additionally discussions will include special topics in domestic violence regarding heterosexual and homosexual families, religion, the military, and American and Global cultures students will use both in a classroom setting and their cooperative work experiences to learn and practice intervention, as well as prevention strategies utilized by social service agencies and the criminal justice system. Upon successful completion of this course and cooperative work experience hours students will receive the Illinois Domestic Violence 40 certification (provided by an approved Illinois Domestic Violence training site). Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in English 101, and Concurrent enrollment in SOC SER 228, or Consent of Department Chairperson.

10 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Social Service (SOC SER) 248

Principles Of Youth & Group Work

Social development and behavior of young people and other adults in all group settings; church groups, street gangs, tutoring programs, recreational groups, YMCAs and YWCAs settlement or delinquency prevention programs. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 249

Practicum In Youth Work

Field work assignment in youth agency 20 hours per week, 8 or 16 weeks; 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (CHLD DV 101 and CHLD DV 102 and SOC SER 101 and SOC SER 248), or Consent of Department Chairperson.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: HW, KK

Social Service (SOC SER) 250

Practicum I

This course combines classroom training with field placement at a community agency or institution serving older persons. Students apply learning about the organization and management of aging services, explore community resources, demonstrate work habits, assess their attitudes and career skills in gerontology, and relate current aging research to practice. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (SOC SER 102 and SOC SER 105 and PSYCH 222).

5 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 251**Practicum II**

This capstone course provides a review of gerontology course work, field placement experience at a human services agency or institution serving older persons, advanced classroom training in practice concepts related to service delivery to older adults, an guidance in producing a final project that will summarize the students gerontological course work. Writing assignment, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 250.

5 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 252**Nursing Home Administration**

This course introduces students to administrative practices in long-term care facilities including organization, financial management, staffing, community relations, managing the physical plant, in-service training, and alternatives to institutionalization. In preparation for taking the Nursing Home Administrator licensing exam, students will also learn about community health systems, auxiliary agencies and programs, chronic diseases and infirmities, the aging process and the care of the aged, and related local, state, and federal legislation.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 253**Accounting For Long Term Care**

This course is designed to give students, who will be essentially non-financial managers, the financial knowledge needed to perform the duties of a healthcare administrator in the long-term care setting.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: WR

Social Service (SOC SER) 258**Prin Practice In Comm Org**

For students who work with community action programs, community planning, or neighborhood improvement. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in (CHLD DV 102 and SOC SER 101 and SOC SER 201 and SOC SER 213), or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Social Service (SOC SER) 259**Practicum in Community Service**

Field work placement in a community service agency plus weekly seminars. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SOC SER 258, or Consent of Department Chairperson.

20 Laboratory hours. 2 Lecture hours. 6 Credit Hours.

Offered At: KK

Sociology (SOC)

Sociology (SOC) 110**Religion And Society**

Sociological investigation into relationship between religious values and forms of social organization. Concentration on contemporary religious movements and includes examples from Christian, Jewish, Islamic and non-western religions. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences

Sociology (SOC) 201**Intro To the Study Of Society**

Characteristics of group life, the effect of the group on human conduct, and the interrelationships between society, culture, and the individual. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S7 900 GE: Social & Behavioral Sciences HD Course

Sociology (SOC) 202**Sociology Of Urban Life**

Study of urbanization, personal and social disorganization, collective behavior, social movements and voluntary associations, race and ethnic relations, social stratification, industrial relations, and political sociology. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR

GE: Social & Behavioral Sciences

Sociology (SOC) 203**Marriage And The Family**

Study of the family as a dynamic social institution; emphasis on love, sex, dating, courtship and marriage, child rearing, marital problems, and divorce. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S7 902 GE: Social & Behavioral Sciences

Sociology (SOC) 205**Social Problems**

Understanding current social problems. This class explores the genesis, significance, and amelioration of social problems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, KK, MX, TR, WR

IAI: S7 901 GE: Social & Behavioral Sciences

Sociology (SOC) 207

The Sociology Of Sex & Gender

Examines the difference between behavior based on what society says is appropriate in order to be masculine or feminine. Examines the question of what forces in society are most influential in determining the place or men and women with special emphasis on power. Examines how this influence works through the process of socialization and core social institutions, including marriage and family, education, religion, the economy, and politics. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: S7 904D GE: Social & Behavioral Sciences HD Course

Sociology (SOC) 208

Transnational Feminisms

This course introduces the field of Women's and Gender Studies as a dynamic, interdisciplinary and transnational project. Students will examine the particularity of various women's lives and their different histories and social locations; how women (and men) make sense of these specificities and harness them to alter their daily lives and fight multiple hierarchies of oppression. In the process of doing this, it will become clear how these different experiences are always connected albeit in different ways to systemic forces like colonialism, capitalism, nationalism, patriarchy, which structure many women's (and men's) experiences globally. Writing assignments as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

Sociology (SOC) 209

The Black Man In The U S

Environmental factors that identify African-Americans as an ethnic group in the United States; study of social values, attitudes, definition, behavior, social institutions and processes of this ethnic group. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

GE: Social & Behavioral Sciences HD Course

Sociology (SOC) 210

Diverse Cultures/Global Age

Examines the issues of diversity and prepares students to speak and act with sensitivity and awareness of others. Students will gain proficiency in global events and their implications; students will learn how to interact with international visitors through the use of role playing. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW

HD Course

Sociology (SOC) 211

Race & Ethnic Relations

A comparative analysis of racial, religious and ethnic groups. The course examines how group identity is formed and it is maintained or persists. It includes how group identity affects inter-group relations, social movements, government policy and related social problems. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, OH, TR, WR

IAI: S7 903D GE: Social & Behavioral Sciences HD Course

Sociology (SOC) 241

Institutional Racism

Survey of racism in basic institutions of American life: education, law enforcement, health services, government, business, industry, religion, entertainment, science, and housing. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, OH

IAI: S7 903D GE: Social & Behavioral Sciences HD Course

Sociology (SOC) 280

Human Relations

Social and psychological aspects of inter-group relations; relationships between the dominant group and minority religious, ethnic, racial and social class groups. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: TR

GE: Social & Behavioral Sciences HD Course

Spanish (SPANISH)

Spanish (SPANISH) 101

First Course Spanish

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

Spanish (SPANISH) 102

Second Course Spanish

Continuation of Spanish 101. Writing assignments, as appropriate to the discipline, are part of the course.

Placement Test or Grade of C or better in SPANISH 101

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

Spanish (SPANISH) 103**Third Course Spanish**

Review and development of basic language skills, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPANISH 102; or Placement Exam and Interview with World Language Faculty

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

HD Course

Spanish (SPANISH) 104**Fourth Course Spanish**

Review of language structure and interpretation of readings, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPANISH 103; or Placement Test and Interview with World Language Faculty.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: H1 900 GE: Humanities HD Course

Spanish (SPANISH) 111**Spanish For Hispanos**

Formal structure of Spanish and preparation for enrollment in advanced courses. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, MX

IAI: H1 900 GE: Humanities HD Course

Spanish (SPANISH) 112**Spanish for Health Care Professionals**

This course is a Spanish language course geared toward individuals studying or working in health-related areas. The course is devoted to the study of medical terminology in Spanish and the cultural issues related to successful interactions with Spanish-speaking patients and their families in the clinical setting. It will introduce the student to a wide array of vocabulary particular to the medical field, as well as help the student develop a cultural understanding of medicine and illness in the Spanish-speaking world to prepare for potential work with Spanish-speaking patients in future careers in medicine, nursing, social work, translation/interpretation, or mental health settings.

4 Lecture hours. 4 Credit Hours.

Offered At: TR

Spanish (SPANISH) 113**Spanish For Near Native Speakers I**

Review of formal structure and sound system of language for near-native speakers; emphasis on accurate, fluent and effective oral expression. Writing assignments, as appropriate to the discipline, are part of the course.

Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, MX, WR

GE: Humanities HD Course

Spanish (SPANISH) 114**Spanish for Near-Native Speakers II**

Continuation of Spanish 113. Emphasis on reading and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPANISH 113 or Consent of Department Chairperson

4 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, WR

GE: Humanities HD Course

Spanish (SPANISH) 191**Survival Spanish Nursing**

Provides trans-cultural training for nurses and future nurses. Emphasis is on enhancing quality patient care. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, MX, TR

HD Course

Spanish (SPANISH) 192**Spanish for Law Enforcement**

"Spanish for Law Enforcement Officers" is designed to prepare non-Spanish-speaking police officers to use Spanish language skills and cross-cultural strategies to enhance their ability to aid victims and control offenders in potentially dangerous situations involving native Spanish speakers. Note: This course is NOT a substitute for any criminal justice course. It is strictly to enhance learned knowledge of policing protocols. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Spanish (SPANISH) 206**Intensive Oral Practice Spanish**

Practice in spoken language, fluency and accuracy. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPANISH 104, or Placement Test, or Consent of Department Chairperson.

4 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, TR, WR

GE: Humanities HD Course

Spanish (SPANISH) 210**Modern Civilization & Culture Spanish**

Recent social, cultural, and historical trends, conducted in Spanish and English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: H1 900 GE: Humanities HD Course

Spanish (SPANISH) 213**Intro To Modern Literature Spanish**

Selections from contemporary writings, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPANISH 104, or Placement Test, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, WR

IAI: H3 916 GE: Humanities HD Course

Spanish (SPANISH) 214

Readings In Literature Spanish

Works from selected historical periods, conducted in the Spanish. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in SPANISH 104, or Placement Test, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, TR, WR

IAI: H3 916 **GE:** Humanities HD Course

Speech (SPEECH)

Speech (SPEECH) 101

Fundamentals of Speech Communication

Theory and practice of oral communication; development of poise and confidence, delivery, and speech organization; public speaking practice; small group discussion, and development of standards of criticism. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2-3 Lecture Hours. 2-3 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

IAI: C2 900 **GE:** Communications

Speech (SPEECH) 102

Public Speaking

Advanced theory and practice of oral communication in public speaking in speaker-audience situation; discussion of psychological effects of speech techniques, choice of words, attitudes, and structuring; role of speech in gaining consensus in a confrontation of the rhetoric of agitation and control; studies of outside speakers from personal viewing, television viewing, and examination of speech texts, argumentative techniques used in the persuasive speech. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPEECH 101-1, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

Speech (SPEECH) 104

Group Communication

Principles and theories involved in discussion techniques; participation in various kinds of discussion groups to prepare student for leadership roles in community, business, and professional groups. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPEECH 101-1, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

Speech (SPEECH) 106

Human Communications

Types of verbal and nonverbal communication, oral and visual, as transmission of data and information to elicit a response; includes methods of encoding information for communication, history, social consequences of modern communication, both verbal and visual. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Speech (SPEECH) 112

Intro To Oral Communication

Process of communication applied to interpersonal group and mass communication; emphasis on practical application of communication in our daily lives. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Speech (SPEECH) 131

Introduction To The Theater

Elementary principles of acting, directing, scene design, scene construction, costuming, lighting, sound and makeup for the stage. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR

GE: Fine Arts

Speech (SPEECH) 135

Speech Projects

A speech project performed outside of the classroom as an activity. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated two credit hours will be counted towards graduation.

Consent of Department Chairperson.

3 Laboratory hours. 1 Credit Hours.

Offered At: HW, KK, WR

Repeatable: Yes, up to 2 times

Speech (SPEECH) 140

Speech Clinic

For students with problems in voice or diction. Huskiness, lack of vocal melody, nasality, slovenly diction, sound substitution, lack of ease in precise articulation of consonant and vowel sounds are treated. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Speech (SPEECH) 143

Training The Speaking Voice

Improvement and development of an individuals voice, speech, pitch, volume, and overall articulation through use of phonetics of American English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, WR

Speech (SPEECH) 144

Oral Reading & Interpretation

Study of communication skills required for effective oral reading; experience in oral interpretation of representative examples from prose, poetry, and drama. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPEECH 101-1, or Consent of Department Chairperson.

2-3 Lecture Hours. 2-3 Credit Hours.

Offered At: HW, KK, WR

IAI: TA 916

Speech (SPEECH) 145**Radio And Television**

Historical development of broadcasting and analysis of existing programs; objectives of radio and television, study of program types, acceptable standards for broadcasting, and career opportunities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Speech (SPEECH) 160**Business & Professional Speech**

Speech techniques used in selling, administrative reporting, public relations, program speaking, conference procedures, and other industrial and professional presentations. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

Speech (SPEECH) 202**Interpersonal Communication**

Study of leadership, group process, and interpersonal relations in the small group, conference, and public forum. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, TR, WR

Speech (SPEECH) 206**Argumentation**

Role of debate in a democratic society; principles of investigation and analysis of issues, types and tests of evidence and reasoning as applied to public questions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPEECH 101-1, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Speech (SPEECH) 243**Speech For Teachers**

Correcting common errors of articulation, identifying and directing remedial cases, reading aloud with interest, controlling and directing simple classroom discussions, developing good speaking voices, and selecting and presenting assembly programs. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SPEECH 101-1, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK

Supply Chain Mgmt & Logistics (SCML)

Supply Chain Mgmt Logistics (SCML) 150**Intro To Transportation Administration**

This course covers transportation practices and strategies for the 21st century. Provides an overview of basic principles and processes for transportation related functions in both the public and private sectors; covers state and federal regulations; provides a historical look at transportation in the U.S. and the impact it has on the economy; characteristics of different modes of transportation will be discussed. The role and importance of transportation in the economy and its relationship to the supply chain will be covered in detail. Transportation modes - trucks, rail, air, and water - will be examined for both domestic and global transportation. Review support functions for transportation management. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 151**Central Store: Applied Logistics**

This course allows students to perform entry-level job functions in "The Central Store," which is a live logistics operation. In this course, students work in the Central Store under supervision, allowing them an opportunity to gain the skills needed to demonstrate preparedness for full time employment in a logistics environment. Additionally, students will apply critical thinking and business communications skills. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

2 Laboratory hours. 4 Lecture hours. 6 Credit Hours.

Offered At: OH

Repeatable: Yes, up to 4 times

Supply Chain Mgmt Logistics (SCML) 152**Intro To Business Logistics**

An introduction to the interrelated activities involved with the inbound, in process and outbound movement and storage of goods as well as the related information from the manufacturer to the consumer. There will be a special emphasis placed on how the functional areas of logistics such as customer service, transportation, inventory control, warehousing and packaging impact supply channel decision-making. Introduction and analysis of the logistics concept to include a brief history of logistics, the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location and customer service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 154

Customer Service Operations

An introduction to customer service operations and to the key elements of customer service that are necessary to ensure high levels of customer satisfaction. Key elements include: the customer order process, reverse logistics, characteristics of good customer service, customer relationship management (CRM), customer life cycle (CLC), service performance metrics, supplier management inventory, order management, delivery and tracking and approaches to addressing challenging customer situations that inhibit satisfaction. Covers the fundamentals of finished goods movements from the point of production to the receipt by the customer; includes transportation, warehousing, inventory deployment and physical distribution. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 155

Warehouse Management

Overview of warehouse equipment, procedures, facility layout, the role of the warehouse and logistic and business. This course will enable students to understand the various functions involved in the operation of a warehouse. Key elements include: the role of warehousing in the supply chain, storage and handling techniques, performance metrics, customer service considerations, and safety concerns across various types of distribution facilities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 158

Purchasing

An introduction to purchasing roles and functions. Functions include: strategic sourcing, purchasing operations, supply chain management, project management, credit, receiving, delivery tracking, supplier selection and administration, qualification of new suppliers, preparing purchase orders, negotiating price and delivery, strategic customer/vendor relationships, and resolution of problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 159

Inventory Management

Fundamental principles of inventory control; inventory classifications – raw materials, work-in-process, finished goods and maintenance, repair and operations inventory. Using Pareto analysis (80/20 rule) and ABC classifications; importance of inventory record accuracy; inventory turnover and other inventory measurements; principles of Enterprise Resource Planning (ERP), Material Requirements Planning (MRP) and Manufacturing Resource Planning (MRP II); inventory control systems; internal and external lead time and cumulative lead time; excess and obsolete inventory; role of inventory control in the logistics process and organization; physical inventories and cycle counting; and scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 160

Operations Management

This course provides management and analytical concepts/tools for the management of operations and the decision-making process within the scope of the supply chain. Recently, operations strategy has provided companies with a competitive advantage in supply chains and transportation. Decision-making regarding operational issues is one of the most common tasks within organizations. This course will enable the student to perform the quantitative analysis necessary and understand the management issues in order to make good operational decisions within the supply chain. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 180

E-Commerce/E-Procurement

The purpose of this course is to provide the student with an understanding of the role of electronic commerce (e-commerce), electronic procurement (e-procurement), and their impact on supply chain management decision-making. This course is designed to provide the student with a historical perspective of the evolution of e-commerce, e-procurement and how they have affected the supply chain. Topics include a history of e-commerce, business to business (B2B) models, business to consumer (B2C) models, consumer to consumer (C2C) models as well as the role of Internet technologies in e-commerce. How the Internet has changed warehousing and transportation strategies and the way we conduct business in the supply chain. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 181

Demand Planning & Forecasting

Provides an introduction to customer demand forecasting, planning and studies the critical concept of closely balancing supply and demand using both quantitative and qualitative forecasting techniques. Topics covered include sales and operations planning (S&OP), market and business intelligence, demand shaping, trends, cycles, mitigating risk, collaborative planning, forecasting and replenishment (CPFR) processes, independent and dependent demand. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 182**Global Logistics**

Provides a study of the supply chain management and logistics function related to the global environment including import/export, customs clearance, international legal considerations, global sourcing, financing, import duties and letters of credit. This course is designed to survey the impact of the emerging global market place on today's business environment. In particular, this course will integrate the concepts, theories, and evolving practices of global supply chains with today's marketplace. Topics include international terms of sale, impact of e-commerce on global strategies, international transportation carriers, documentation issues, global third-party providers, global sourcing, legal and ethical considerations.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Supply Chain Mgmt Logistics (SCML) 210**Inventory Control**

Fundamental principles of inventory control. Inventory classification - raw materials, work-in-process, and finished goods. Using the 80/20 rule and ABC classifications. Importance of inventory record accuracy. Inventory turnover and other inventory measurements. Principles of Material Requirements Planning and MRP II. Inventory control systems. Internal and external lead time and cumulative lead time. Excess and obsolete inventory. Role of inventory control in the logistics process and organization. Physical inventories and cycle counting. Scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: OH

Surgical Technology (SURG TC)

Surgical Technology (SURG TC) 105**Sterile Processing Basics**

The course is designed to present an introduction to the central sterile processing setting and its relevant standards and protocols related to regulations, infection prevention, quality assurance, safety, risk management, communication, and professional practices. This course will illustrate the theories related to cleaning, disinfection, assembly, packaging, sterilization, storage, transportation of medical devices, Standard and Universal precautions, and event-related sterility. Additionally, in this course, students will learn ancillary support service skills in pursuant to entering the central sterile processing setting. Students will complete a cumulative review of the curriculum required to prepare for the Certified Registered Central Service Technician (CRCST) Examination delivered by the International Association of Healthcare Central Sterile Material Management (IAHCSMM). This course also highlights professional development and employability skills such as cover letter writing, resume writing and interview techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, and Admission to Sterile Processing program

4 Laboratory hours. 5 Lecture hours. 7 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 106**SP Experiential Learning**

In this course, instruction is delivered by faculty and onsite by a central sterile employee. Students will complete the essential duties that central sterile processing technicians are responsible for in the relative central sterile areas. The clinical hours offered in this course combined with minimal additional hours as a central sterile processing department volunteer or employee are necessary to fulfill the 400 hours of hands-on experience needed to apply to sit for the Certified Registered Central Service Technician (CRCST) Examination. This course is also designed to introduce basic and complex surgical instrumentation, as well as commonly used medical devices used in the patient care environment. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101, Admission into the Sterile Processing Program, & co-enrollment in SURG TC 105

25 Clinical hours. 2 Laboratory hours. 9 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 111**Intro To Surgical Technology**

This course is designed to introduce students to the history and foundation of Surgical Technology, the legal and ethical responsibilities of healthcare professionals, and risk management. In addition, this course will explore the technological sciences, patient care related concepts, and professional role of Surgical Technologist. This course also examines various human diversity issues relating to the care of surgical patients. Age, death/ dying, disability status, ethnicity, gender, race, religion and economic status will all be examined. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, BIOLOGY 120, BIOLOGY 121, BIOLOGY 226, Any college level Math course (MATH 118 recommended), and ENGLISH 101: Composition Eligibility

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 112**Principles & Practice for STs**

This course is designed to introduce students to the techniques and application of the principles and practices that are performed during the preoperative, intraoperative and postoperative phases of surgical interventions. Writing assignments, as appropriate to the discipline, are part of the course.

Admission to the Surgical Technology Program, BIOLOGY 120, BIOLOGY 121, BIOLOGY 226, Any college level Math course (MATH 118 recommended), and ENGLISH 101 Composition Eligibility.

3 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 113

Surgical Procedures I

This course is designed to introduce students to the preoperative, intraoperative, and postoperative considerations related to Diagnostic, General, Ob/Gyne, Genitourinary, and Otorhinolaryngology surgical procedures/ disciplines. The relevant surgical anatomy, physiology, pathophysiology, and diagnostic interventions as well as unique aspects and practices of these surgical disciplines will be examined. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, Completion of SURG TC 111, SURG TC 112, and BIOLOGY 227 with a grade of C or better and concurrent enrollment in SURG TC 114

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 114

Applied Surgical Procedures

This course is designed for students to begin to connect the knowledge of the principles and practices learned in Surg TC 112 to the creation and maintenance of the sterile field and preoperative preparation of the surgical patient. This course will cover the relevant surgical case management skills up to the TIME OUT portion of entry level mock surgical cases. Where possible, these mock surgical cases will reflect the surgical procedures taught concurrently with this course in Surg TC 113. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, Completion of SURG TC 111, SURG TC 112, and BIOLOGY 227 with a grade of C or better and concurrent enrollment in SURG TC 113

8 Laboratory hours. 4 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 116

Surgical Procedures II

This course is designed to introduce students to the preoperative, intraoperative, and postoperative considerations related to Endoscopy, Oral Maxillofacial, Plastic Reconstructions, Ophthalmic, and Orthopedic surgical disciplines. The relevant surgical anatomy, physiology, pathophysiology, and diagnostic interventions as well as unique aspects and practices of these surgical disciplines will be examined. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, Completion of SURG TC 113, SURG TC 114, and MCROBIO 233 with a grade of C or better and concurrent enrollment in SURG TC 118

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 118

Applied Surgical Procedures II

This course is designed to enable students to build upon the techniques learned and practiced in Surg TC 114. At this level, students will bring together the preoperative, intraoperative and postoperative surgical case management skills relevant to entry level mock surgical cases from Preoperative preparation of the surgical Patient through completion of the procedure, surgical wound management, and return of the operating room to its preoperative state. Where possible, these mock surgical cases will reflect the surgical procedures taught concurrently with this course in SURG TC 116. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, Completion of SURG TC 113, SURG TC 114, and BIOLOGY 233 with a grade of C or better and concurrent enrollment in SURG TC 116

8 Laboratory hours. 3 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 210

Surgical Procedures III

In this course students are introduced to the preoperative, intraoperative, and postoperative considerations related to Pediatric, Trauma, Neuro, Peripheral Vascular, and Cardiovascular/ Thoracic surgical disciplines. The relevant surgical anatomy, physiology, pathophysiology, and diagnostic interventions as well as unique aspects and practices of these surgical disciplines will be examined. Writing assignments as appropriate to the discipline are part of the course.

Admission to the Surgical Technology Program, Completion of SURG TC 113, SURG TC 114, and MCROBIO 233 with a grade of C or better and concurrent enrollment in SURG TC 116

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 211

Surgical Intervention IV

A study of surgical procedures with emphasis on thoracic, vascular and cardiac surgery. There is also emphasis placed on resume writing, job placement, interviewing and negotiating in the job market. Review for the national exam. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in SURG TC 200.

1 Laboratory hours. 2 Lecture hours. 2 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 212**Clinical Experience I**

This clinical course is designed for students to synthesize and apply the skills gained in the preceding surgical technology core curriculum courses under direct supervision of a preceptor, at their assigned clinical site. In this surgical setting, students will perform the sterile and nonsterile perioperative responsibilities of an entry level Surgical Technologist. Students may be assigned for a portion of this course in the sterile processing department, surgery department, endoscopy department, and labor and delivery department. Together with Surg TC 213 (Clinical Experience II), students are required to scrub a minimum of 120 cases. Clinical sites are located within 50-miles of the campus and are assigned by the Program Director and Clinical Coordinator based on the factors outlined in the clinical contract. Written assignments and clinical documentation appropriate to the discipline, are part of this course and due weekly. Students will also be expected to attend a one-hour conference with clinical instructors each week on campus as part of this course.

Admission to the Surgical Technology Program, Completion of SURG TC 116 and SURG TC 118 with a grade of C or better and concurrent enrollment in SURG TC 210 and SOC 201

24 Laboratory hours. 5 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 213**Clinical Experience II**

In this course, students will apply the skills learned in the Surgical Technology curriculum under the direct supervision of preceptors at their assigned clinical site. In this hand-on training, students function in both nonsterile and sterile perioperative roles. Students may be assigned to sites where the sterile processing, labor and delivery, and/or endoscopy departments will be a part of their rotation. In this Clinical Experience course, together with Surg TC 212, students are expected to scrub a minimum of 120 cases. In this course, students are expected to take a more independent role during surgical procedures as the course progresses. Clinical sites are located within a 50-mile radius of the campus. Written assignments and case documentation appropriate to the discipline, are part of this course.

Admission to the Surgical Technology Program, Completion of SURG TC 212 and SURG TC 210 with a grade of C or better, concurrent enrollment in SURG TC 210 and satisfactory completion of all required immunizations

32 Laboratory hours. 9 Credit Hours.

Offered At: MX

Surgical Technology (SURG TC) 215**Career Readiness for STs**

This course will prepare Surgical Technology students for the National Board of Surgical Technologists and Surgical First Assistants and will include participation in the national board exam at the end of the course. Students will also develop resume building, interview skills, professional communication and oral presentation techniques.

Grade of C or better in SURG TC 212 and SURG TC 218, and concurrent enrollment in SURG TC 213

3 Lecture hours. 3 Credit Hours.

Offered At: MX

Technology 332 (332TECH)

Technology 332 (332TECH) 400**Scaffold Safety**

General safety guidelines for constructing and dismantling scaffolds, including a review of local municipal and OSHA codes, rules and regulations. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 2 times

Technology 332 (332TECH) 401**Intro To Labor & Trade Occ**

This course will provide the student with information about trades and crafts related training programs, unions, and working conditions. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 406**Construction Materials/Methods**

This course will provide the student with the information needed on construction materials and methods used in the construction of buildings. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 407**Quality Abatement Supervisor**

This course emphasizes the supervisory responsibilities required to safely remove hazardous materials as asbestos and lead. The course will provide instruction on potential health effects, personal protective equipments and information on such hazardous materials as asbestos, lead and mold; removal practices and procedures and other related safety and health concerns. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 408**Environmental Safety Worker**

This course is designed to provide the student with the general knowledge for environment safety workers. It fulfills OSHA's requirements to perform class I and II work. Students will receive instruction on the potential health effects, personal protective equipment, background information on such hazardous materials as asbestos, lead, and mold; removal practices and procedures, and other safety and health concerns. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 409

Construction Safety

This course is intended to provide the student with a basic understanding of safety practices found in the construction industry. Emphasis will be placed upon those areas in construction that are most hazardous, using OSHA standards as a guide. Upon successful completion, students will be issued the OSHA construction safety and health 10-hour course completion card. Writing assignments, as appropriate to the discipline, are part of the course.

0.5-1 Lecture Hours. 1.5-3 Laboratory Hours. 1-2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 410

Interior Construction I

This course will provide the student with the opportunity to practice and master the task required for entry level carpentry positions. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 411

Interior Construction II

This course will provide the student the opportunity to practice and master the installation and the finishing techniques of interior carpentry, which are required for entry level employment as a carpentry apprentice. Particular attention will be given to the installation of finish trim, doors, windows, flooring, hardware, ceilings, counters, cabinets and the finishing of woodwork and trim. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 416

Exterior Construction I

This course will present material and methods used in various types of concrete forming for building construction. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 417

Exterior Construction II

This course will focus on rough framing and exterior walls, stairs, porches, decks, roofs and dormers. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 418

Exterior Construction III

This course focus in on installation of banisters, fascia, siding, windows, doors, screens, gutters, downspouts, roofing materials, and other exterior trim. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 419

Building Maintenance Math

Basic principles of math with application relative to building maintenance and repair. Course content include: fractions, decimals, percents, measurements, ratios and proportions. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 420

Carpentry Maintenance

Basic carpentry skills used in building maintenance and repair. Course content includes: tools, safety, materials, doors, windows, walls, ceiling, and interior trim. Writing assignments, as appropriate to the discipline are part of the course.

1 Lecture Hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 421

Electrical Maintenance

Basic electrical skills used in building maintenance and repair. Course content includes: troubleshooting, testing, repairing, and replacing faulty devices and controls. Use of electric test meters and devices will also be included. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 422

Plumbing Maintenance

Basic plumbing skills used in building maintenance and repair. Course content includes: troubleshooting, repairing, and replacing faulty plumbing and fixtures. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 424

Drywall & Interior Wood Trim

This course is designed to provide the student with the basic fundamentals of how to install drywall, apply tape and joint compound, sand to a smooth surface, as well as, install wood trim to baseboards, windows, and doors. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 425

Window and Door Installation

This course is designed to provide the student with the knowledge and skills required to install windows and doors. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 426

Intro To Concrete Masonry

This course provides an overview of concrete masonry trade, which includes the history and safety standards. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 427**Masonry Tools & Equipment**

This course is designed to provide the student with an overview of the types of tools and equipment used in the concrete masonry industry. Writing assignments, as appropriate to the discipline, are part of the course.

C or better in 332ENGR 426.

2 Lecture Hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 428**Mortar**

This course is designed to introduce students to mortar applications. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 3 Laboratory Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 429**Basic Math & Specifications**

This course is designed to teach basic applications of mathematics pertinent to the trade. Emphasis will be placed on actual measurements and calculations, different types of specifications used in the building industry as related to the trade. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 430**Masonry Installations Procedures**

This course is designed to provide students the practical skills required to install masonry units. Writing assignments, as appropriate to the discipline, are part of the course.

C or better in 332ENGR 426

1 Lecture Hours. 6 Laboratory Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 431**Specifications & Building Code**

This course will enable the student to adhere to established local codes and laws governing construction and rehabilitation of buildings; measure and estimate costs of labor, time and materials; develop written proposals for specific projects. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 432**Basic Arc Welding**

In this course, the student will concentrate and master basic welding skills and techniques. An overview of the safety rules and procedures will also be provided. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 434**Introduction To Plumbing**

This course is designed to provide an overview of the plumbing trade which includes the history and safety and sanitation procedures. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 435**Plumbing Tools & Equipment**

This course is designed to provide the student with an overview of the types of tools and equipment used in the plumbing trades. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 436**Plumbing Codes**

This course is designed to introduce students to the regulations of Illinois Department of Public Health. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 437**Basic Plumbing Related Math**

This course is designed to teach the basic application of mathematics pertinent to the plumbing industry. Emphasis will be placed on actual measurements and calculations of pipe and other fittings.

Grade of C or better in 332TECH 434

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 438**Intro To Fire Protection**

This course is designed to provide an overview of the fire protection and sprinkler trade. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 439**Home Plumbing System**

This course is designed to provide an overview of the plumbing systems within a home. Those systems include: waste, vent and water piping. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Laboratory Hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 440**Introduction to Construction Masonry**

This course is designed to provide students with an overview of the history of the concrete and brick masonry trades, which includes the history and safety standards. In addition, the types of tools and equipment used in the concrete and brick masonry industries will be examined. Writing assignments, as appropriate to the discipline, are part of the course.

Placement into ENGLISH 96 and MATH 98.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 441**Flooring/Floor Covering**

This course will instruct the student in safety precautions for working with adhesives and mastic; safety operation of equipment, and installation of carpeting/padding, as well as the replacement of damaged tiles. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 442

Introduction To Bricklaying

This course is designed to provide an overview of the bricklaying trade, which includes its history and safety standards. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 443

Bricklaying Tools & Equipment

This course is designed to provide the student with an overview of the tools and equipment used in the bricklaying industry. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332ENGR 442

2 Lecture Hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 444

Bricklaying Installation Procedures

This course is designed for students to develop and practice the skills and techniques required in bricklaying. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332ENGR 442.

1 Lecture Hours. 6 Laboratory Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 445

Introduction to Electrical Theory

Offers a general introduction to Ohm's law, the National Electrical Code and general procedures. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 446

Foundations and Flatwork

This course is designed to teach basic forms for continuous, grade beam concrete footings including edge forms used for slabs and other structures. Theory and hands-on application are emphasized through the completion of the course. Writing assignments, as appropriate to the discipline, are part of the course.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 447

Materials

This course is designed to describe uses of work materials and grading systems. The course will also describe various kinds metals, fasteners, and adhesive used for roadwork carpentry. Theory and hands-on applications are emphasized through the completion of the course. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 448

Vocational Physical Training I

Vocational Physical Training focus on preparing students for the physical challenges that line worker careers require. Students learn the basic of nutrition and how what we eat fuels our bodies. Students will learn proper techniques to stretch, warm up and physically train. Emphasis is given to cardiovascular training as well as leg and upper body strength. Instructors work with students to overcome physical challenges and fears for basic pole climbing. Student must earn a "C" or better in course to advance to Vocational Physical Training II. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory Hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 449

Professional Development

This course is designed to provide the student with a basic understanding of the human relations skills necessary to obtain employment and succeed in a quality work environment. This course includes resume development, cover letter writing, job searching skills, networking skills, interviewing techniques, and post-interview skills. Additionally, this course helps students succeed while on the job by exposing students to current workplace trends, team building skills, customer and co-worker relations, attitude and motivation, stress management, and financial management and planning. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 1 times

Technology 332 (332TECH) 451

Plumbing

This course will enable the student to identify pipe fittings and standard plumbing symbols; install rough plumbing for bath and kitchen fixtures, and install water heating systems. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 452

Basic Electrical Theory

This class covers the theories behind basic electricity. The emphasis is on electron theory, magnetism, Ohm's Law, and circuitry. Alternating current concepts such as circuits with resistance, inductive and capacitive reactive circuits, and power factor correction are covered. Basic math skills are used. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 453**Overhead Techniques & Projects I**

This first semester discusses basic electric system layout from generator to electrical user and focuses on practical tasks and working concepts associated with electrical line work. Aerial climbing is introduced and practiced; power line equipment is used. Overhead distribution line design, specifications, and construction are part of this class. In this class, students learn basic rope knots, guying and anchoring techniques, electrical connectors, hand tools, and power tools. Additionally, students learn about single phase underground distribution concepts and metering principles. Student must earn a "C" or better to advance to Overhead Techniques and Projects II. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 107, ENGLISH 197, 332TECH448-1 and 449.

3 Lecture Hours. 2 Laboratory Hours. 4 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 1 times

Technology 332 (332TECH) 458**Overhead Techniques & Projects II**

In this second semester class, students learn about and use advanced levels of topics such as aerial climbing, rope knots and splices, electrical connectors, electrical test equipment, as well as hand and power tools. Students also learn basic hydraulic principles. Application and installation of various electrical apparatus in a lab environment is completed by the students. Overhead distribution structures are constructed, protective grounding is introduced and live line work such as rubber gloving and hot stick use (deenergized lines). Underground distribution (UD) equipment is introduced including cable terminating tools and cable locating equipment. Students will install and terminate UD cable, Three-phase concepts such as metering and UD are covered. The class covers various component pieces of electrical distribution equipment. The class is introduced to current prospective devices including automatic throw overs, high voltage fuses, sectionalizers and oil current reclosers. Students learn to identify various type switches and are introduced to step-type voltage regulators. Students practice safety concepts common to line workers. Students also identify and read distribution maps. A trencher/cable plow, trucks and other mobile equipment are used by the student. The student must earn a C or better in this course. Writing assignments, as appropriate to the discipline are part of the course.

Grade of C or better in 332TECH 452 and 332TECH 453 and 462.

3 Lecture Hours. 2 Laboratory Hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 459**Construction Safety and Rescue**

This course is intended to provide the student with a basic understanding of safety practices found in the construction industry. The student will be provided specific instruction in Flagging and Cardiopulmonary Resuscitation (CPR). Emphasis will be placed upon those areas in construction that are the most hazardous, using OSHA standards as a guide. Upon completion, students will be issued the OSHA construction safety and health 10-hour course completion card. The student will be provided a basic knowledge of bucket truck and pole top rescue. Emphasis will be placed upon those areas in the electrical line worker profession. Student must earn a "C" or better in course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 452, 453 and 462.

2 Lecture Hours. 2 Laboratory Hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 462**Vocational Physical Training II**

Vocational Physical Training focuses on preparing students for the physical challenges that line worker careers require. Students will build upon the skills developed in Vocational Physical Training I. Students will learn how to select foods to provide optimum health and the best sources of energy. Students will learn how to read labels and how to use food to cleanse and maintain overall health. Students will build upon techniques for stretching, warming up and physical training. Student must earn a grade of C or better in course to advance to Vocational Physical Training III. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 448.

2 Laboratory hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 463**Vocational Physical Training III**

Vocational Physical Training focuses on preparing students for the physical challenges that line worker careers require. Students will build upon the skills developed in Vocational Physical Training II. Students will learn how to produce ideal body composition through food intake and how to balance other physical dimensions of self through physical activities. Students will learn advanced techniques to stretch, warm up and physically train. Student must earn a C or better to satisfy course and certificate completion. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 462.

2 Laboratory hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 464**Power Equipment Operation I**

This course provides instruction in preparation for obtaining a commercial driver's license. In addition, the class covers the operation and use of a variety of power equipment commonly used in the electric power industry including the use of bucket trucks, power take-off equipment, trailers, cable pullers and tensioners. Student must earn a grade of C or better in the course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MATH 107, ENGLISH 197, 332TECH 448-1 and 449.

1 Laboratory hours. 2 Lecture hours. 2.5 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 465**Painting & Decorating**

In this course, the students will be provided with instruction in the preparation of surfaces, the selection, mixing, an application of paints, stains, varnishes, finishes, and wallpaper. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hours. 3-6 Laboratory Hours. 2-3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 466**Introduction to Painting**

The course is designed to provide an overview of the painting and decorating trade, which includes the history of the industry, job ethics, and terminology utilized within the industry. Critical thinking employability skills will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 467

Introduction to Painting Tools

The course is designed to provide the student with an overview of the proper use and care of painting tools, equipment, selection, mixing, and application of materials used in painting. Emphasis will also be on safety practices and the storage and disposal of materials. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 468

Basic Taping

The course is designed to provide students with instruction in the preparation of surfaces of taping. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 469

Advance Plumbing/Pipefitting

This course offers students the opportunity to increase their skills and knowledge in the plumbing industry. Course material covered will include art of pipe sizing, print reading, fitting allowance, code review, thermodynamics/pipe connection above and below grade. A review of the proper procedure for solving offset problems will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 434-1 or one year experience in the plumbing industry.

6 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 470

Power Equipment Operations II

This course is a continuation of 330TECH 464 to provide instruction in preparation for obtaining a commercial driver's license. In addition, the class covers the operation and use of a variety of power equipment commonly used in the electric power industry including the use of bucket trucks. Power take-off equipment, trailers, cable pullers and tensioners. Students must earn a grade of C or better in the course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in Math 107, and English 197, and 332TECH 448, and 332TECH 449 and 332TECH 464.

1 Laboratory hours. 2 Lecture hours. 2.5 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 471

Exterior Repair & Remodeling

This course will instruct the student to remove and replace doors and windows; install exterior hardware; install weatherization, insulation and roofing materials. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 481

Interior Repair & Remodeling

This course will instruct students to make minor plaster repairs; install interior hardware; replace/repair damaged wood flooring, tile and other floor coverings; apply wallpaper, paints, and other coatings. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 491

Residential Electrical Wiring

This course will instruct students in writing of various electrical configurations commonly found in residential systems. Writing assignments, as appropriate to the discipline, are part of the course.

9 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 503

Gas Utility Training I

Gas Utility Training I introduces students to the principles, processes, and sub-systems applicable to the safe construction and operation of natural gas distribution systems, for delivery of natural gas to end-use customers. Classroom and practical room training will ensure that students possess the necessary skills and knowledge to perform duties in an entry-level gas utility worker job classification. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 432CMGT 609 - Construction Safety II

3 Laboratory hours. 5 Lecture hours. 6 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 504

Gas Utility Training II

Gas Utility Training II is a continuation of the Gas Utility Training I. The course expands upon the principles, processes, and sub-systems applicable to the safe construction and operation of natural gas distribution systems relative to the construction of mains and services, pressure regulator and meter installation/removal, excavation damage prevention, lockout/tagout and shutdown processes, and safe appliance light-up procedures. It includes an introduction to joining methods for various pipe component materials, such as compression fittings for plastic and ferrous materials. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform duties in a secondary level gas utility worker job classification. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 503-Gas Utility Training I

6 Laboratory hours. 4 Lecture hours. 6 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 505

Gas Utility Training III

This course provides students with knowledge of advanced processes for mains pipe facilities repair, installation, and abandonment. It also provides knowledge of advanced processes for service pipe work. Students also review the fundamentals of appliance light up and venting, and hazards associated with potential leak and ignition sources inside and outside of a structure. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform advanced duties associated with work on distribution piping systems by higher level gas utility worker job classifications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 504-Gas Utility Training II

3 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 506**Gas Utility Training IV**

This course provides students with knowledge of advanced processes for gas service activation and other end-use activities. This course also provides students with additional safety related details for carrying out certain activities covered in Gas Utility Training III. Theory of operation of Class 1 and Class 2 pressure regulators is also covered. Students will learn the principles of operation and diagnosis of operational problems and applicable NFGC code requirements on the broad scope of end-use appliances. Excavation and trenching safety is covered in detail. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform advanced duties associated with work on gas service activation and end-use appliances and systems by higher level gas utility worker job classifications. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332TECH 505-Gas Utility Training III

3 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 509**Intro to Basic Arc Welding**

This course will concentrate and master basic welding skills and techniques. An overview of the safety rules and procedures will also be provided. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 3-12 Laboratory Hours. 2-6 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 510**Blueprint, Layout, & Fabrication**

Detail interpretation of welding print and fabrication, fabrication procedures as well as interpreting basic elements of a drawing or sketch. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 515**Related Mathematics I**

This course is designed to provide to the student those mathematical tools most often needed to solve trade related problems. The instruction includes a review of whole numbers, fractions, decimal, powers, roots, ratios proportions and percentages. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 516**Related Mathematics II**

Continuation of Mathematics I. Topics include elementary algebraic operations, geometry and an introduction into trigonometry. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 518**Manufacturing Materials & Processes**

An introduction to manufacturing materials, methods, and processes for drafting and design technicians is provided. Basic cold and hot working processes, used to join, form, weld, shape and cut materials to specified sizes, are also taught. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hours. 1 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 520**Arc Welding**

This course provides continued development of the basic skills for performing operations with mild steel plates. Student progress in welding from flat to vertical, down to horizontal, and to vertical up positions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in 332ENGR 509.

2 Lecture Hours. 6 Laboratory Hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 526**Welding Mathematics I**

This course gives a student a review of basic mathematics as it pertains to layout and blueprint reading. The course covers decimals, fractions, and converting whole inches to millimeters. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 530**Advanced Welding**

In this course students will concentrate and master advanced welding skills and techniques. An overview of safety rules and procedures will also be given. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Laboratory Hours. 4 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 581**Concrete Framing**

This course will acquaint the student with industry terminology, the tools used in the trade, and safety procedures. Instruction and demonstration will introduce the student to the application of footings, foundation walls, and slab, and stair construction. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 582**Residential Carpentry**

Training consists of an orientation into the field of carpentry, industry terminology, and the discipline and the uses of tools of the trade.

Students will receive hands-on training in the recognition and application of the materials used in residential structures. Writing assignments, as appropriate to the discipline, are part of the course.

3 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 583**Basic Hand Tools**

This course is designed to introduce students to the operation and safe use of various types of hand tools. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 715**Intro o Hand and Power Tools**

This course will enable the student to identify, maintain, and illustrate proper handling and care of the various hand and power tools. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hours. 6 Laboratory Hours. 1-3 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 767

Blueprint Reading I

Introduce students to construction blueprints and specifications. Emphasis on how to read and understand all types of working drawings used in the construction industry. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 768

Blueprint Reading II

Continuation of Blueprint Reading I. This course will further develop the student's ability to interpret drawings of intermediate and advanced complexity related to actual trade projects. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture hours. 2 Credit Hours.

Offered At: KK

Technology 332 (332TECH) 769

Blueprint Reading III

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Theater Art (THR ART)

Theater Art (THR ART) 129

Intro To Theater History

Introduction to theater history from its origins to the present including theatrical styles and literature. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, TR, WR

Theater Art (THR ART) 130

Stagecraft

Introduces safety procedures and basic techniques of scenery and property construction, tool use, scene painting, and backstage organization. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, WR

IAI: TA 911

Theater Art (THR ART) 131

Intro To Theater

Introduction to Theater is a survey of theater, including basic elements and principles of production, styles, and historical perspectives of theater, dramatic literature, and criticism. Writing assignment, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, WR

IAI: F1 907 GE: Fine Arts

Theater Art (THR ART) 132

Theater Production, Direction & Management

Production and direction of plays; experience in play selection, theater organization, scheduling, audience analysis, box office and record keeping, and publicity. Writing assignments, as appropriate to the discipline, are part of the course.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: HW, KK, MX, TR, WR

Theater Art (THR ART) 133

Acting I

Acting techniques, stressing exercises, improvisations, prepared and general acting situations; theories of method and technical methods explained and presented; survey of acting styles. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, MX, OH, TR, WR

IAI: TA 914

Theater Art (THR ART) 134

Theater Diversity in the U.S.

Examination of various dramatic expressions that reflect the experience and construction of racial or cultural minority identity in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: DA, HW, KK, OH, TR, WR

IAI: F1 907, F1 909D GE: Fine Arts HD Course

Theater Art (THR ART) 135

Theater and Special Projects

Special project permitting independent research and/or study, includes writing of a play or design and execution of a costume or a special and unusual unit of scenery. Not more than three hours of credit counted toward graduation. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture hours. 1 Credit Hours.

Offered At: HW, KK

Theater Art (THR ART) 136

Stage Make-up

This course is an introduction to the basic techniques and philosophies concerning the effective application of theatrical makeup. The objective of the course is to give the student a practical, working knowledge of the principles of highlighting, shadowing, and contouring the human face with makeup in a workshop environment. Explorations into the basic techniques involved in working with crepe hair, and various three-dimensional processes shall also be undertaken.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK, OH, TR, WR

Theater Art (THR ART) 137

Stage Lighting

Comprehensive study of theory and technique of lighting for the theater; use of all instruments and dimming controls, work on sound in theater. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

Theater Art (THR ART) 138

Topics In Theatre

Special survey courses introducing employment opportunities and procedures in theatre. Writing assignments, as appropriate to the discipline, are part of the course. Course runs in a rotation of 3 topics. Courses may be repeated for a total of 3 credit hours.

1-3 Lecture Hours. 1-3 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 3 times

Theater Art (THR ART) 140**Sound For Theatre**

Comprehensive Study of theory and technique of sound and sound engineering; use of all instruments amplification and recording equipment. Writing assignments as appropriate to discipline are part of the course.

Grade of C or better in MATH 118.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Theater Art (THR ART) 141**Costumes And Wardrobe**

Introduces theory of costume design, focusing on safety procedures and basic techniques of costume and accessory construction, tool use, fitting and draping, and costume shop organization through projects in cutting, stitching, and finishing costumes for production. Writing assignments as appropriate to discipline are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK

Theater Art (THR ART) 143**Acting Workshop**

Practical workshop in performance styles, stage techniques, timing, scene study and improvisations; students will cooperate in class-produced one-act plays. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: HW, KK

Theater Art (THR ART) 144**Practice In Modern Theater**

Workshop in production of modern plays; readers theater methods will be used in total concept of modern theater production; less emphasis on detail than in Theater Art 143. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: KK

Theater Art (THR ART) 225**Independent Internship Assignment**

A course of planned and supervised training that allows the application of theory to actual practice, preparing a student for working independently toward specific career objectives. It takes place at a regular theatre related worksite and instructions/supervision is provided by an employee at the worksite. Students may receive regular pay scale if allowed and if available. Course includes on-campus one-hour weekly seminar. Writing assignments as appropriate to discipline are part of the course. Allowed Repeatable Course: Not more than an accumulated 12 credit hours will be counted toward graduation.

Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Laboratory Hours. 3-6 Credit Hours.

Offered At: KK

Repeatable: Yes, up to 3 times

Theater Art (THR ART) 230**Stage Management**

Practice in stage management. Students will work with scenes and plays as a stage manager, will operate special sound effects and recording equipment, and will make a complete sound track for a play. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in THR ART 131, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: KK, WR

Theater Art (THR ART) 232**Theater Workshop**

Participation in production of one-act and full length plays with class, operated as a theater company; students will work in all phases of theater including touring theater, acting, directing, and other areas of theater as a full company experience. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: KK, TR

Theater Art (THR ART) 233**Theater Design**

Scene design including preparation of plans, scale models and ground plans; history of design; project: full design for play currently produced in the theater. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK, WR

Theater Art (THR ART) 235**Acting II**

A continuation of Acting I with an emphasis on an intensive approach to acting exercises, improvisation and scene study. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in THR ART 133 or Consent of Department Chairperson.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, OH, TR, WR

Theater Art (THR ART) 236**Voice And Movement**

The study of using voice and movement to interpret and perform works of literature, such as essays, letters, novels, poetry, and short stories, with an emphasis on communicating that interpretation to an audience. Writing assignments as appropriate to discipline are part of the course.

Grade of C or better in (THR ART 133 or THR ART 134).

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Theater Art (THR ART) 237**Theatre Production & Management**

Production and management of plays and theatres; survey of theatre and production organization, scheduling audience analysis, box office operation, record keeping and publicity. Writing assignments as appropriate to discipline are part of the course.

Grade of C or better in MATH 118 and THR ART 230, or Consent of Department Chairperson.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: KK

Theater Art (THR ART) 240**Play Production**

A literary exploration of the relationships between dramatic text and the play in performance, with special emphasis on basic terminology and methodology. Representative plays are studied in their genre, historical, and social contexts. Writing assignments as appropriate to discipline are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: KK

Theater Art (THR ART) 242

Improvitational Theater Workshop

Theory and practice of improvisational acting techniques; development of scripting in the moment, development of character and styles; designing and performing an improvisational show. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

Offered At: HW, KK, TR, WR

Theater Art (THR ART) 252

Children's Theater Workshop

The students will participate in a production of a play for children. The class will operate as a theater company and students will work in all phases of theater including acting, directing, stage managing and producing as a full company experience. Writing assignments, as appropriate to the discipline, are part of the course.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: WR

Zoology (ZOOLOGY)

Zoology (ZOOLOGY) 211

General Zoology

Fundamental principles of animal morphology, physiology, genetics, and ecology. Writing assignments, as appropriate to the discipline, are part of the course.

Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: OH, TR

GE: Life Sciences

ADDENDUM

Changes made to academic catalog during the 2022-2023 academic year

Item	Change Description	Date of Update - Effective Term
FIN ART 114 and FIN ART 115	MX and WR received IAI GECC approval for FIN ART 114 and FIN ART 115 (p. 433)	5/2/2022 - Spring 2022
HUM 143	MX received IAI GECC approval for HUM 143 (p. 433)	5/2/2022 - Spring 2022
HUM 212	TR received IAI GECC approval for HUM 212 (p. 433)	5/2/2022 - Spring 2022
MUSIC 183	OH received IAI GECC approval for MUSIC 183 (p. 433)	5/2/2022 - Spring 2022
PHIL 110	DA received IAI GECC approval for PHIL 110 (p. 433)	5/2/2022 - Spring 2022
SPANISH 104	KK received IAI GECC approval for SPANISH 104 (p. 433)	5/2/2022 - Spring 2022
GEOLOGY 201	OH received IAI GECC approval for GEOLOGY 201 (p. 433)	5/20/2022 - Spring 2022

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