

PROGRAMS OF STUDY

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Health Science

The background of the page features a series of overlapping, curved, abstract shapes in various shades of blue and white. These shapes create a sense of movement and depth, with some areas appearing more prominent than others due to the layering. The overall aesthetic is clean and modern.

PROGRAMS OF STUDY

HEALTH SCIENCE

BIOTECHNOLOGY 215

Associate in Applied Science degree (A.A.S.)

67 Credit Hours (CH)

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.

Program 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 biotech 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.

Each student must achieve a minimum grade of C for all courses required to complete the degree. An overall grade point average of 2.0 or better must be maintained.

It is strongly recommended that students take Chemistry 207 "Organic Chemistry II" and Biology 210 "Survey of Biotechnology" to be competitive in the Biotechnology industry. Since Biotechnology is highly diverse, it is important that students select courses specific to the industry they are seeking to be employed. They should meet with a college Academic Advisor from the Department of Biology/Biotechnology or Department Chairperson.

General Education

18 CH

Biology (023)

121 Biology I 5

English (035)

101 Composition 3

Math (045)

125 Introductory Statistics" 4

Students should meet with a college Academic Advisor for selection of remaining course requirements for the general education portion of the A.A.S. degree.

See page 51 for A.A.S. general education degree requirements.

Required Program Core

43 CH

Biology (023)

122 Biology II 5

209 Biochemistry 4

250 Intro to Molecular Biology 3

251 Molecular Biology I 4

252 Molecular Biology II 4

Chemistry (073)

201 General Chemistry I 5

205 Organic Chemistry I 6

Mathematics (045)

140 College Algebra 4

Microbiology (024)

233 General Microbiology 4

234 Applied Microbiology 4

Electives

6 CH

Select a minimum of two courses from the following Biology, Chemistry and CIS disciplines or other recommended courses by a college Academic Advisor.

Biology (023)

107 Nutrition-Consumer Education (3)

210 Survey of Biotechnology (3)

Chemistry (073)

204 Quantitative Analysis (5)

207 Organic Chemistry II (6)

217 Intro to Instrumental Analysis (4)

CIS (032)

116 Intro to Operating Systems (3)

TOTAL PROGRAM MINIMUM CREDIT HOURS

67 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

DENTAL HYGIENE 222

Associate in Applied Science degree (A.A.S.)
72 Credit Hours (CH)

NOTE: This program will be revised effective summer 2011 at which time an addendum to the current catalog 2011-13 will be published. New students should consult with a college Academic Advisor or Department Chairperson.

The A.A.S. in Dental Hygiene provides specialized educational, clinical, and therapeutic services in preventive oral healthcare preparing graduates for national, regional, and state board examinations required for licensure as registered dental hygienists. Major responsibilities include examination of the teeth and oral structures; the removal of plaque, calculus and stain from teeth; exposing and developing x-rays; and educating patients in home oral healthcare techniques. The A.A.S. can lead to employment opportunities in private dental offices, managed care facilities, dental product sales, public health clinics, or the insurance industry.

A unique partnership with the University of Illinois at Chicago (UIC) College of Dentistry gives students the opportunity to complete prerequisite and general education courses at Kennedy-King College followed by the core professional courses and clinical training at the UIC's College of Dentistry.

Special admission requirements for the Dental Hygiene Program include a college grade point average of 2.0 or better (on a 4.0 scale), satisfactory scores on standardized college placement and vocational aptitude tests, evidence of high school graduation or GED certificate, proof of current certification in CPR Basic Life Support at Healthcare Provider Level, letters of recommendation, autobiographical statement, and completion of 20 hours of college level prerequisites with a grade of "C" or better in:

Biology (023)

Biology 121- General Biology I (4)

Biology 226- Human Structure and Function I (4)

Biology 227- Human Structure and Function II (4)

Chemistry (073)

Chemistry 121- Basic Chemistry I (4)

Sociology (089)

Sociology 201- Introduction to the Study of Society (3)

Selected candidates must complete a comprehensive physical and dental examination, including appropriate immunizations prior to the beginning of classes. Students are responsible for the purchase of all required books, instruments, uniforms, gloves, and malpractice insurance. Program curriculum, admission requirements, and cost estimates are subject to change. Please contact the department office for current guidelines.

The Dental Hygiene Program is accredited by the Commission on Dental Accreditation of the American Dental Association. The Commission is a specialized accrediting body recognized by the Council for Higher Education Accreditation and by the United States Department of Education.

The Dental Hygiene core professional courses listed below must be taken in sequence and passed with a grade of "C" or better before the student may advance in the program.

First Year

First Semester – Summer

	Credit Hours
Dental Hygiene (100)	
110 Oral Microbiology and Immunology	2
112 Concepts of Preventive Therapy I	2
Mathematics (045)	
118 General Education Math	4
Semester total	8 CH

Second Semester – Fall

	Credit Hours
Dental Hygiene (100)	
121 Principles of Dental Hygiene I (lecture)	2
123 Principles of Dental Hygiene I (lab)	2
125 Nutrition and Biochemistry	2
131 Oral Structures and Function	3
133 Head and Neck Anatomy	2
135 Concepts of Preventive Therapy II	1
English (035)	
101 Composition	3
Semester total	15 CH

Third Semester – Spring

	Credit Hours
Dental Hygiene (100)	
122 Principles of Dental Hygiene II (lecture)	2
124 Principles of Dental Hygiene II (lab)	3
126 Dental Radiology	3
128 General and Oral Pathology	2
130 Dental Materials	3
Speech (095)	
101 Fundamentals of Speech Communication	3
Semester total	16 CH

Second Year

Fourth Semester – Summer

	Credit Hours
Dental Hygiene (100)	
200 Summer Clinic	3
202 Critique of Dental Literature	1
Psychology (087)	
201 General Psychology	3
Semester total	7 CH

Fifth Semester – Fall

	Credit Hours
Dental Hygiene (100)	
233 Expanded Functions	2
235 Community Dental Health I	2
241 Dental Pharmacology	2
243 Periodontics	2
251 Clinical Dental Hygiene I	5
Semester total	13 CH

Sixth Semester – Spring

	Credit Hours
Dental Hygiene (100)	
250 Oral Diagnosis	2
252 Clinical Dental Hygiene II	5
254 Dental Specialties	1
256 Community Dental Health II	1
258 Ethics and Jurisprudence	2
260 Senior Seminar	2
Semester total	13 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS 72 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

EMERGENCY MEDICAL TECHNICIAN – BASIC ENTRY LEVEL & PARAMEDIC ADVANCED LEVEL

(See below: *Emergency Medical Technician-Basic (Basic Certificate) 252*; *EMT II Paramedic 265 (Advanced Certificate)*; and *EMT II Paramedic 263 (A.A.S.)*)

A career in Emergency Medical Services (EMS) provides the student with the knowledge and training to recognize symptoms of illness and injury and to provide emergency medical care. Professionals in the field of EMS are prepared to make quick decisions based on classroom, laboratory, and field experience. Emergency medical technicians and paramedics perform their jobs with and for people. Students must have a sincere desire to work with people and must be empathetic to the needs of the sick and injured. Regional EMS systems utilize two levels of practice, EMT-B and Paramedic, which are licensed by the State of Illinois.

Entry level training: EMT-B

Emergency Medical Technician-Basic (EMT-B) training provides basic knowledge and skills that can be used at home, school, or the work place, whenever a medical emergency is present. Successful completion of the certificate program comprising one course enables the student to sit for the state licensing exam. Students must attain license as an EMT-B before pursuing the paramedic level. EMT-B licensing is required by most municipalities for employment as fire fighter and other public service career.

Advanced level training: Paramedic

Once the EMT license is attained, a student can advance to the paramedic program. This program offers a higher level of skill and knowledge to render advanced life saving techniques in an emergency situation. Successful completion of the program enables the student to sit for the state licensing exam. Paramedic licensing is required for all advanced life support ambulance service.

EMERGENCY MEDICAL TECHNICIAN-BASIC 252

Basic Certificate (B.C.) 6 Credit Hours (CH)

Program Requirements for Admission

- Official high school transcript or GED certificate showing date of graduation or completion.
- 18 years of age or older.
- Must be eligible to enroll in or have passed English 101 or successful completion of EMT 100 – Emergency Medical Technician-First Responder Training course.
- Must complete interview with program director.

Required Program Core

	Credit Hours
Emergency Medical Technician (120)	
101 Emergency Medical Technician-Basic	6

TOTAL PROGRAM MINIMUM CREDIT HOURS 6 CH

EMT II PARAMEDIC 265

Advanced Certificate (A.C.) 34 Credit Hours (CH)

The Advanced Certificate in the Paramedic Program is awarded to the student that successfully completes 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 Illinois Department of Public Health or the National Registry of EMTs.

Program Requirements for Admission

Courses runs for three consecutive semesters starting each fall semester, Applications are accepted the previous spring. To be considered for admission the applicant must:

- Be a high school graduate or GED Certificate holder.
- Be currently licensed by the State of Illinois as an EMT-B.

Note: Students enrolled in a current spring semester EMT class who have not completed the state exam are not eligible to apply unless from a MXC EMT class with acceptable course grade.

- Earn a passing grade in Biology 116, equivalent A&P course or higher (such as *Human Structure and Function/BIO 226 and 227*).
- Have a current CPR card.
- Ambulance experience as an EMT-B (approximately 500 hours) by start of program is strongly recommended.
- Achieve acceptable scores on admissions examinations. Submit, by deadline, completed program application with transcripts, to the Paramedic Program Director at Malcolm X College.

PROGRAMS OF STUDY

HEALTH SCIENCE

Applicant Interviews

Interviews with the EMS Region XI Admissions Committee are granted to those applicants who have met or exceeded admission criteria.

Selection Factors

Selection of candidates for this program is highly competitive and conducted by interview process. 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 experience in the EMS field.

Required Program Core

First Semester

Emergency Medical Technician (120)

221 Essentials of Paramedic Medicine I	9
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222 Paramedic Medicine Practicum I	5
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Semester total	14 CH
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Second Semester

223 Essentials of Paramedic Medicine II	9
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224 Paramedic Medicine Practicum II	5
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Semester total	14 CH
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Third Semester

227 Field Internship	6
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Semester total	6 CH
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TOTAL PROGRAM MINIMUM CREDIT HOURS	34 CH
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Credit Hours

Credit Hours

Credit Hours

EMT II PARAMEDIC 263

Associate in Applied Science degree (A.A.S.)

61 Credit Hours (CH)

In addition to the Advanced Certificate, 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 Associate in Applied Science Degree (A.A.S.) 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 A.A.S. 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.

General Education

27 CH

English (035)

English 101	3
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Biology (023)	
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Biology 120	3
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Sociology (089)	
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Sociology 201	3
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Psychology (087)	
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Psychology 201	3
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Communications elective	3
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Social Science electives	5
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Humanities/Fine Arts electives	3
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Physical/Life Sciences electives	4
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See page 51 for A.A.S. general education degree requirements.

Required Program Core

34 CH

Emergency Medical Technician (120)

221 Essentials of Paramedic Medicine I	9
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222 Paramedic Medicine Practicum I	5
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223 Essentials of Paramedic Medicine II	9
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224 Paramedic Medicine Practicum II	5
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227 Field Internship	6
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For further information about attaining an Associate in Applied Science degree in Emergency Medical Services, contact the EMS Program Office at (312) 850-7124.

PROGRAMS OF STUDY

HEALTH SCIENCE

MEDICAL ASSISTANT (BASIC) 359

Advanced Certificate (A.C.) 33 Credit Hours (CH)

This certificate program 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.

Required Program Core

Biology (023)

120 Terminology for Medical Careers 3

Health (001)

102 Medical Law & Ethics 3

103 Medical Assisting Clinical Procedures I 3

104 Medical Assisting Clinical Procedures II 3

105 Medical Careers Professional Development 2

106 Administrative Procedures 3

107 Pharmacology 4

108 Fundamentals of Ambulatory Billing & Coding 3

109 Medical Assisting Externship Practicum 6

251 First Aid 3

TOTAL PROGRAM MINIMUM CREDIT HOURS 33 CH

MEDICAL ASSISTING 386

Basic Certificate (B.C.) 26 Credit Hours (CH)

The Medical Assisting program is the classroom and hands on training program encompassing the administrative, clinical and laboratory principles of the medical office. The program is recommended for those contemplating a career in health care professions.

Required Program Core

Biology (023)

115 Human Biology 4

120 Terminology for Medical Careers 3

132 Clinical Lab Procedures for Medical Offices 5

Business (030)

184 Principles of Medical Office Administration 6

CIS (032)

Introduction to Microcomputer 3

Phlebotomy (113)

109 Phlebotomy Practicum & Seminary I 5

TOTAL PROGRAM MINIMUM CREDIT HOURS 26 CH

MORTUARY SCIENCE 257

Associate in Applied Science degree (A.A.S.)

62 Credit Hours (CH)

Students enrolled in the Mortuary Science program will obtain 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).

Goals of the Program: To provide a relevant, current and comprehensive ABFSE curriculum, provide comprehensive public safety and technical experiences through laboratory education, and to establish mastery levels at which students can successfully complete all program requirements and the International Conference of Funeral Service Exam (ICFSE), provide students with the necessary academic preparation to become licensed by the IDFPR, and to establish and maintain program policies that supports a well rounded, globally professional for empowerment.

The Program recognizes the importance of funeral service education personnel as: members of a human services profession, members of the community in which they serve, participants in the relationship between bereaved families, and those engaged in the funeral service profession; and as professionals, knowledgeable of and compliant with federal, state, provincial, and local regulatory guidelines; as well as professionals sensitive to the responsibilities for public health, and welfare in caring for human remains.

The program qualifies graduates to register with the IDFPR for intern to state licensure upon successful completion of the program and a registered score on the ICFSE (see Capstone course requirements on last page of Mortuary Science program narrative).

PROGRAMS OF STUDY

HEALTH SCIENCE

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.
- Official college transcripts from all institutions attended.
- Completion of 18 semester credit hours in BIO 120 or Health Science 102, BIO 121, English 101, Speech 101, and Mathematics 118 for fall/August Day enrollment or, completion of 34 semester credit hours in BIO 120 or Health Science 102, BIO 121, English 101, Mathematics 118, BIO 226, BIO 227, BIO 130 and 131, Entrepreneur 201 and CIS 120 for spring/May evening enrollment.
- Grade Point Average must be at least “C” (GPA 2.5) for fall day enrollment or,
- Grade Point Average must be at least “C” (GPA 3.0) for spring evening enrollment.
- Grade C or better in English 101 and Mathematics 098 or a 10th grade reading and math level on the placement examination.
- Completion of all Prerequisite Electives & General Education courses specified in day or evening curriculum.
- Submission of completed application to the Mortuary Science Program.
- Submission of three Letters of Recommendation.
- Submission of an Essay.
- \$40.00 non-refundable application fee with application submission.
- Interview with Program Director and Advisory Board Members.
- Biology 226 and 227 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.
- Transfer status is not a guaranteed acceptance. MXC college advisors perform transcript evaluations at the request of the student. Transcript evaluation forms are available at the Office of Admissions and Student Records on campus.
- Application deadline: April 7 of every year.
- Electronic notification of acceptance by program: April.
- Electronic applicant response to acceptance offer: April.
- 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 Information and Application is available on the web: www.malcolmx.ccc.edu/aas/mortuaryscience.
- 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 ABFSE web site www.abfse.org.
- The Mortuary Science Program at Malcolm X College is accredited by the American Board of Funeral Service Education (ABFSE) 3414 Ashland Avenue, Suite G, St. Joseph, Missouri 64506 (816) 233-3747. www.abfse.org
Executive Director: Dr. Michael Smith.
(Public notification of change in Executive Director, spring 2011.)

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.
- Complete the 62 credit hours of the Mortuary Science curriculum.
- Earn at least a 2.0 grade point average, a “C” or higher in Mortuary Science courses.
- Pass the Practice National Board Exam (PNBE) and Comprehensive Exit Examinations in capstone course.
- Register and complete the Arts and Sciences National Board Exam (NBE) within 45 days of the City Colleges of Chicago **graduation date**.
- 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. Courses are offered Monday–Thursday during the fall enrollment in the day from 8 a.m.–3:20 p.m.; during the spring enrollment in the evening from 6–8:50 p.m.; and during the summer enrollment in the evening from 4–9:50 p.m.

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.

PROGRAMS OF STUDY

HEALTH SCIENCE

Prerequisite Courses

Mortuary Science Day program:

These requirements must be completed before applicant applies to the Mortuary Science Day Program. Each course must be taken by all students to establish eligibility for admission and fulfillment of the Associate in Applied Science degree requirements.

Biology (023)

120 Terminology for Medical Careers or

Health Science (124)

102 Prof. Medical & Health Care Practices

Biology (023)

121 Biology I

English (035)

101 Composition

Mathematics (045)

118 General Education Mathematics

Speech (095)

101 Fundamentals of Speech Communications

Mortuary Science (128) ABFSE Core-Courses and General Education Courses 18-Month DAY Curriculum begins in fall/August

First Semester (Aug.–Dec.)

Credit Hours

Mortuary Science (128)

102 Microbiology for Embalmers

103 Chemistry for Embalmers

104 Pathology for Embalmers

111 History of Funeral Service

Biology (023)

226** Human Structure and Function I

Semester total

16 CH

Second Semester (Jan.–May)

Credit Hours

Mortuary Science (128)

108 Accounting in Funeral Service

109 Sociology for Funeral Service

207 Restorative Art

213 Embalming Theory I

Biology (023)

227** Human Structure and Function II

Semester total

16 CH

Third Semester (Aug.–Dec.)

Credit Hours

Mortuary Science (128)

203 Funeral Directing

204 Mortuary and Business Law

215 Restorative Art Laboratory

216 Embalming Theory II

Biology (023)

130 & 131** Human Cadaver Anatomy I and II

Entrepreneurship (143)

201*** Intro to Entrepreneurship

Semester total

16 CH

Fourth Semester (Jan.–May)

Credit Hours

Mortuary Science (128)

210 Advanced Mortuary Science Practice/Ethics

211 Psychology of Funeral Service

209 Funeral Management/Merchandise

214 Embalming Laboratory

CIS (032)

120*** Introduction to Microcomputers

Semester total

14 CH

Total General Education/ABFSE hours

16 CH

Total Core Course hours

46 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS

62 CH

**General Education courses included in program credit hours

***ABFSE Business Management (Entrepreneurship) course required and included in program credit hours

Accelerated Curriculum– 14-Month EVENING Curriculum

This program of study is available to any student who has successfully completed all of the prerequisite electives and general education courses. This program is designed to meet the needs of those applicants who have completed the minimum requirement of 34 college credit hours within the required prerequisite electives and general education courses.

Acceptance notice must be issued from the Director of the Mortuary Science Program prior to enrollment into the 14-Month Evening Program. Courses are offered in the evenings only. Students in the accelerated program can only attend courses in the evening. Students are not allowed to attend day course offerings and vice-versa. Application deadline is April 7 of every year.

Courses are offered Monday–Thursday from 4–9:50 p.m. during first and fourth semesters, and from 6–8:50 p.m. during the second and third semesters. The accelerated curriculum begins in May and ends in July of the following year. All students are encouraged to have access to a computer and Internet services. Several course offerings will require basic computer skills due to Blackboard course materials and assessments. Several computer labs are located on campus for student convenience. Prerequisite Electives and General Education Courses.

PROGRAMS OF STUDY

HEALTH SCIENCE

These requirements must be completed before applicant applies to the Mortuary Science Evening Program. Each course must be taken by all students to establish eligibility for admission and fulfillment of the Associate in Applied Science degree requirements.

Health Science (124)

102 Professional Medical and Healthcare Practices OR

Biology (023)

120 Terminology for Medical Careers 3

121 Biology I 5

226 Human Structure & Function I 4

227 Human Structure & Function II 4

130 Human Cadaver Anatomy I 1

131 Human Cadaver Anatomy II 1

English (035)

101 Composition 3

Speech (095)

101 Fundamental of Speech Communication 3

Mathematics (045)

118 General Education Math 4

Entrepreneurship (143)

201 Intro to Entrepreneurship 3

CIS (032)

120 Intro to Microcomputers 3

** General Education courses included in program credit hours

***ABFSE Business Management (Entrepreneurship) course required and included in program credit hours

Fourth Semester (May–Aug.)

Mortuary Science (128)

108 Accounting in Funeral Service 3

209 Funeral Management and Merchandise 3

215 Restorative Art Laboratory 2

210 Advanced Mortuary Science Practice/Ethics 2

Semester total 10 CH

Total General Education/ABFSE hours 16 CH

Total Core Course hours 46 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS 62 CH

**General Education courses included in program credit hours.

***ABFSE Business Management (Entrepreneurship) course required and included in program credit hours

Day/Evening Program

One (1) Capstone Course: To register for the capstone course, students must have successfully completed semesters one-three and are concurrently enrolled in the fourth semester. Beginning January 1, 2004 all Funeral Service Education Students must take the National Board Examination (NBE) as a requirement for completion of the program. The NBE is the final exam in the capstone course. Students must self-register and pay the NBE fee within 45-days of the City Colleges of Chicago graduation date in order to take the final exam. Students must first obtain authorization from the Director before self-registration. Once authorized, failure to register and pay the NBE fee within the 45-days will prevent the student from successfully completing the course and declaring completion and graduation status from the program and college.

Mortuary Science Core Courses

14-Month Evening Curriculum begins in spring/May

First Semester (May–Aug.)

Credit Hours

Mortuary Science (128)

109 Sociology for Funeral Service 3

111 History of Funeral Service 3

104 Pathology for Embalmers 3

211 Psychology of Funeral Service 3

Semester total 12 CH

Second Semester (Aug.–Dec.)

Credit Hours

Mortuary Science (128)

102 Microbiology for Embalmers 3

103 Chemistry for Embalmers 3

213 Embalming Theory I 3

207 Restorative Art 3

Semester total 12 CH

Third Semester (Jan.–May)

Credit Hours

Mortuary Science (128)

203 Funeral Directing 3

204 Mortuary and Business Law 3

214 Embalming Laboratory 3

216 Embalming Theory II 3

Semester total 12 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

NEPHROLOGY/RENAL TECHNOLOGY 247

Associate in Applied Science degree (A.A.S.)

65 Credit Hours (CH)

Nephrology (Renal Dialysis) is a medical discipline specializing in the treatment of patients with end stage renal disease and/or dysfunction. Nephrology technologists are members of a health care team dedicated to helping patients on renal dialysis. Technologists operate technical and sophisticated medical equipment which removes excess fluids and toxins from the circulatory system. They monitor, adjust settings, and record patient data during dialysis. Technologists must become familiar with associated medical support equipment, the application of such, and their safe handling and cleaning. With the high prevalence of diabetes and hypertension, the number of people developing End Stage Renal Disease is increasing. The field of Nephrology is expanding and advancing, which requires Renal Dialysis Technicians and Technologists to have more advance skills.

Enrollment Procedures

A program application is required for entry. Students are admitted in the spring semester with the program starting in the fall semester.

Program Admission Requirements

- Must be at least 18 years of age.
- Submit completed application to the Office of Nephrology/ Renal Technology program along with official high school transcripts or GED certificate showing date of graduation and two letters of recommendation from former teachers, employers, counselors or minister.
- Provide official transcripts for all college courses taken by applicant.
- Submit letter to the Nephrology/Renal Technology office stating why the applicant has chosen the field of Nephrology/ Renal Technology.
- Achieve a minimum grade "C" or better in English 101.

For more information on the Nephrology/Renal Technology program please call (312) 850-7370 or 7371.

First Year

Fall Semester

	<i>Credit Hours</i>
Biology (023)	
120 Terminology for Medical Careers	3
Renal Technology/Nephrology (018)	
101 Intro to Health Care Field & Nephrology	3
102 Basic Hemodialysis Principles I	3
103 Basic Hemodialysis Principles II	3
104 Hemodialysis Procedures I	3
Semester total	15 CH

Spring Semester

	<i>Credit Hours</i>
Chemistry (073)	
121 Basic Chemistry I	4
Renal Technology/Nephrology (018)	
105 Heparinization / BAC in Dialysis	3
106 Diagnostic Tests & Procs in Neprology	3
107 Hemodialysis Procedures II	3
108 Clinical Experience I	3
Semester total	16 CH

Summer Semester

	<i>Credit Hours</i>
Renal Technology/Nephrology (018)	
109 Clinical Experience II	3
Semester total	3 CH

Second Year

Fall Semester

	<i>Credit Hours</i>
Psychology (087)	
201 General Psychology	3
Renal Technology/Nephrology (018)	
201 Renal Physiology and Renal Diseases	3
202 Renal Disease and Pathophysiology	3
203 Clinical Experience III	3
204 Clinical Experience IV	3
Semester total	15 CH

Spring Semester

	<i>Credit Hours</i>
Mathematics (045)	
118 General Education Mathematics	4
Renal Technology/Nephrology (108)	
205 Uremic Syndrome	3
206 Advanced Technology in Nephrology	3
207 Clinical Experience V	3
208 Clinical Experience VI	3
Semester total	16 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS 65 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

NURSING 239

Associate in Applied Science (A.A.S.)

69 Credit Hours (CH)

The Nursing Program prepares students through the study of nursing theory and patient care techniques to take the licensure examination for Registered Professional Nurses (RN). Both classroom instruction and clinical experiences in Chicago and 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.

Admission Requirements for the Nursing Program:

Admission is competitive. The District has one admission policy for all the City Colleges of Chicago RN Programs. Admission to the Program requires admission to the college, approval by the Nursing Admissions' Committee and the completion of the following:

Prerequisite Requirements for Nursing Program:

English 101;
Biology 121;
Earn a "B" or higher in Chemistry 121 or take a higher level chemistry course passing with a "C" or higher;
MATH 118; Math 125; or equivalent with a "C" or higher;
Cumulative college GPA Of 2.5 or higher;
Documented reading score of 90 or above on COMPASS Placement Exam; 90 or above on ATI TEAS for PN applicants which is equivalent to 90 on the COMPASS.
High school transcripts, GED, and other applicable transcripts; Chemistry and Biological Science courses must be completed within five years of admission to the nursing program. These courses can be audited after five years. If audited, the student must meet the requirements of the course.

Prerequisites:

English (035)	
101 Composition	3
Biology (023)	
121 Biology I	5
Chemistry (075)	
121 Basic Chemistry I or higher level Chemistry	4
Mathematics (045)	
118 General Education Math <u>OR</u>	4
125 Intro Statistics or college level Math	

Total Credit Hours for Prerequisite Courses 16 CH

Required Program Core

Nursing (063)

Semester I

101 Fundamentals of Nursing I 7

Semester 2

102 Fundamentals of Nursing II 7

Semester 3

210 Nursing Process and Alterations in Homeostasis I 6

211 Nursing Process and Alterations in Homeostasis II 6

Semester 4

212 Nursing Process and Alterations in Homeostasis III 6

213 Nursing Process and Alterations in Homeostasis IV 6

203 Nursing in Perspective 3

Total Credit Hours for Core Courses 41 CH

Other General Education/Degree Requirements:

(must be taken before enrolling in third semester of nursing)

Biology (023)

226 Human Structure and Function I 4

227 Human Structure and Function II 4

Microbiology (024)

233 General Microbiology 4

Other General Education Total Credit Hours 12 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS 69 CH

Other Requirements:

Meet health requirements upon admission to the program; subject to a criminal background check and random drug screening; successful completion of degree requirements; meet all degree requirements for A.A.S. in Nursing.

Graduation from the Nursing Program does not guarantee R.N. licensure. The graduate must apply for R.N. licensure and successfully pass the National Council for Licensing Examination (NCLEX-RN). Students applying for licensure will be asked to provide information regarding any prior felony convictions, denial of any professional license, and dishonorable discharge from the armed forces.

Licensed Practical Nurses (LPNs) may advance place into Nursing 210 or Nursing 211 (third semester courses) after meeting all prerequisites and passing Nursing 140 (RN Transition/Bridge course).

PROGRAMS OF STUDY

HEALTH SCIENCE

NURSING (PRACTICAL) 240

Advanced Certificate (A.C.) 40 Credit Hours (CH)

The Practical Nursing Program is a one-year (three semesters) certificate program that provides students with a basic knowledge of nursing theory and practice. Graduates of the practical nursing program meet the educational requirements for the NCLEX-PN exam 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.

Requirements for consideration into the program:

- High School Diploma or GED
- Program Application
- Official Transcripts
- Proof of eligibility for college level math by coursework or placement test
- Pre-Admissions Test

General Education

14 CH

English (035)

101 Composition I

3

Biology (023)

226 Human Structure and Functions I

4

227 Human Structure and Functions II

4

Psychology (087)

201 General Psychology

3

Required Program Core

26 CH

First Semester

Nursing (063)

150 Nursing Fundamentals I

4

151 Nursing Fundamentals II

4

152 Nursing Perspectives

2

Second Semester

153 Nursing through the Life Span I

5

154 Nursing through the Life Span II

5

Third Semester

155 Nursing through the Life Span III

6

TOTAL PROGRAM MINIMUM CREDIT HOURS 40 CH

Note: Certified Nurse Assistants actively employed may be given credit for basic nursing skills—those with a current CNA certificate through the State of Illinois (156 Nursing Fundamentals I Lecture 2 credit hours) Students should consult with the Nursing Department Director.

NURSING (RN COMPLETION) 381

Associate in Applied Science degree (A.A.S.)

70 Credit Hours (CH)

Program Description:

The RN Completion Program will provide students who have completed a Practical Nursing Program with the nursing coursework that will result in an Associate in Applied Science degree in Nursing. This is a ladder program designed to provide an opportunity for Practical Nursing (PN) graduates to continue their education by building on their previous education rather than repeating previously learned material. The A.A.S. in Nursing program prepares students to become registered nurses through licensure from the Illinois Department of Financial and Professional Regulation (IDFPR), and meets critical local, state, and national needs for nursing professionals. Successful completion of the program will allow the student to apply to sit for the NCLEX-RN licensure examination.

Admission Requirements for the RN Completion

Nursing Program:

Admission is competitive. The District has one admission policy for all the City Colleges of Chicago RN Programs. Students seeking admission must successfully complete the entire program of study to become a practical nurse (PN). What makes the RN Completion program unique is that students seeking admission into the program are not required to take the NCLEX-PN Licensure Examination. Admission to the RN Completion Program requires admission to the college, approval by the Nursing Admissions' Committee and the completion of the following:

General Education

17 CH

English (035)

101 Composition

3

102 Composition OR

Speech (095)

101 Fundamentals of Speech Communication

3

Math (045)

118 General Education Mathematics or above

4

Microbiology (024)

233 General Microbiology

4

Psychology (087)

201 General Psychology

3

PROGRAMS OF STUDY

HEALTH SCIENCE

Required Program Core	44 CH
Biology (023)	
226 Human Structure and Function I	4
227 Human Structure and Function I	4
121 Biology I	5
Chemistry (073)	
121 Basic Chemistry I	4
Nursing (063)	
210 Nursing Process and Alterations in Homeostasis I	6
211 Nursing Process and Alterations in Homeostasis II	6
212 Nursing Process and Alterations in Homeostasis III	6
213 Integration of Concepts of Complex Nursing IV	6
203 Nursing in Perspective	3

Minimum of 9 credit hours in escrow from any of the following licensure courses.

Work Based Learning Courses	9 CH
Nursing (063)	
150 Nursing Fundamentals I	4
151 Nursing Fundamentals II	4
152 Nursing Perspectives	2
153 Nursing Through the Life Span I	5
154 Nursing Through the Life Span II	5
155 Nursing Through the Life Span III	6
TOTAL PROGRAM MINIMUM CREDIT HOURS	70 CH

OBSTETRICS & GYNECOLOGIC TECHNOLOGY 221

Basic Certificate (BC) 11 Credit Hours (CH)

This certificate program is designed to present the basic concepts and principles for developing skills and competencies needed in special procedures which the physician may use to assist the mother in labor and delivery. This program will offer knowledge and obligation in aseptic technique, scrubbing, gowning and gloving. The female anatomy, layers of abdomen, proper positioning, draping, patient safety, skin preparation, instrumentation, supplies, drugs, equipment, and different terminology, including different types of anesthesia used during labor and delivery.

Program Requirements for Admission

- Consent of Program Director, English Composition 101 recommended before the Obstetrics Program courses (3 credit hours is part of program total).
- Submit an application and interview with the program director.
- Co-enrollment in Obstetrics Technology 214 and 215.
- Prerequisite for Obstetrics Technology 215 is a "C" or better in 214.

Required Program Core	11 CH
English (035)	
101 Composition	3
Surgical Technology (016)	
214 Obstetrics/Gynecologic Technology	4
215 Obstetrics/Gynecologic Technology	4
TOTAL PROGRAM MINIMUM CREDIT HOURS	11 CH

OCCUPATIONAL THERAPY ASSISTANT (OTA) 259

Associate in Applied Science degree (A.A.S.)
75 Credit Hours (CH)

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

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.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education. (Address: AOTA Accreditation Dept., 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220; Phone: (301) 652-2682). Program participants are eligible for graduation from the OTA Program with an A.A.S. degree upon successful completion of all required academic courses and fieldwork. 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.

PROGRAMS OF STUDY

HEALTH SCIENCE

Required courses before formal admission to the OTA Program. (These hours count towards the OTA degree.) **15 CH**

Occupational Therapy Assistant (122)	
106 Foundations of Human Occupation English (035)	3
101 Composition	3
Psychology (087)	
201 General Psychology	3
207 Child Psychology (may substitute Child Dev. 101)	3
CIS (032)	
120 Introduction to Microcomputers	3

See page 51 for A.A.S. general education degree requirements.

Additional required courses (may be taken before or during the first year of the OTA program): **60 CH**

Biology (023)	
226 Human Structure and Function I*	4
227 Human Structure and Function II	4
Sociology (089)	
201 Introduction to the Study of Society	3
<i>Select one course from the following:</i>	
Child Development (090)	
10 Human Growth and Development II (3)	3
Psychology (087)	
222 Adult Development and Aging (3)	3
Social Service (091)	
102 Introduction to Gerontology (3)	3

OTA (122) sequence requirements

First semester

107 Occupations of Childhood	5
108 Practice Skills for the OTA I	2

Second Semester

109 Occupations of Adolescence and Early Adulthood	5
110 Practice Skills for the OTA II	2

Third Semester

209 Occupations of Middle Adulthood	5
210 Practice Skills for the OTA III	2
211 Special Topics for the OTA I	2/3**

Fourth Semester

212 Occupations of Later Adulthood	5
213 Practice Skills for the OTA IV	2
214 Special Topics for the OTA II	2/3**

Summer Term***

215 Fieldwork Level 2A/Professional Seminar	6
216 Fieldwork Level 2B/Professional Seminar	6

* Biology 226 has a prerequisite of Biology 121.
 ** Students must complete a minimum of 6 credit hours OTA 211 and OTA 214.
 *** All academic coursework must be completed and an exit exam passed in order for students to proceed to the fieldwork component of the program.

OPHTHALMIC TECHNOLOGY 382
Associate in Applied Science degree (A.A.S)
65 Credit Hours (CH)

The Ophthalmic Technology program is a technical degree that educates and trains students to become certified ophthalmic technicians. The program will be managed by a licensed ophthalmologist who will mentor the student technicians in direct and indirect patient care. The program will emphasize the unique duties required of an ophthalmic technician to provide quality vision care services to patients. These include ophthalmic terminology, patient pre-testing skills, optical skills, contact lens patient education/information, ocular anatomy and physiology, visual training, practice management, ancillary testing, instrument maintenance, and assisting the doctor with minor ophthalmic surgery. Clinical experience with doctors and patients is an important part of the curriculum.

General Education 16 CH

English (035)	
101 Composition I	3
Speech (095)	
101 Fundamentals of Speech Communication	3
Biology (023)	
116 Anatomy and Physiology	4
120 Terminology for Medical Careers	3
Arts/Humanities and Social/Behavioral Sciences	
	3

Students should meet with a college Academic Advisor for selection of remaining course requirements for the general education portion of the A.A.S. degree.

See page 51 for A.A.S. general education degree requirements.

Required Program Core 49 CH

Ophthalmic Technology (167)	
112 Anatomy and Physiology of the Eye	4
114 Ophthalmic Optics	3
120 Ophthalmic Pre-Testing	2
125 Retinoscopy and Refractometry	2
130 Ophthalmic Dispensing	3
141 Ophthalmic Office Procedures	4
150 Ocular Pharmacology	2
160 First Aid, Emergency Care, CPR	3
221 Ophthalmic Ancillary Testing	2
223 Advanced Ophthalmic Assisting	3
230 Clinical Practicum I	3
235 Contact Lenses	3
240 Integrated Science for Ophthalmic Technicians	3
242 Clinical Practicum II	3
243 Advanced Ophthalmic Procedures	3
244 Advanced Ophthalmic Technique	3
260 Introduction to Surgical Technology	1
290 Electronic Medical Record	2

TOTAL PROGRAM MINIMUM CREDIT HOURS 65 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

PHARMACY TECHNOLOGY 254

Advanced Certificate (A.C.) 33 Credit Hours (CH)

This program prepares students for employment as Pharmacy Technicians. The program is accredited by the American Society of Health-System Pharmacists. Graduates receive an advanced certificate upon completion.

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.

Enrollment Procedures

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

Program Admission Requirements

- No conviction of felony crime.
- Submit a completed application to the Pharmacy Technology program before June 1 for fall semester admission only.
- Provide official high school transcripts or GED certificate showing date of graduation as well as official transcripts of all college courses taken by applicant.
- Provide official results of the College placement examination indicating college level scores in Mathematics, English, and reading comprehension.
- Submit three letters of recommendation either from former teachers, employers, counselors or ministers to the Pharmacy Technology office, Room 3524.
- Personal interview with members of the program's admissions committee.

For more information on the Pharmacy Technology program please call (312) 850-7385.

First Semester

Credit Hours

Pharmacy Technology (062)

102 Basic Science for Allied Health	4
103 Intro to Pharmacy Technology	4
104 Pharmaceutical Calculations	3
201 Introduction to Pharmacy Law	1
204 Clinical Practicum I	4

Semester Total 16 CH

Second Semester

Credit Hours

101 Pharmacology for Allied Health	4
113 Prescription Processing	2
121 Pharmacy Communication	3
202 Pharmacy Operations	4
205 Clinical Practicum II	4

Semester total 17 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS 33 CH

PHLEBOTOMY 219

Basic Certificate (B.C.) 11 Credit Hours (CH)

This is a two-semester certificate program which 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. 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. Phlebotomists serve as the direct link between the patient and the laboratory. 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.

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.
- Take the college entrance examination (COMPASS).
- Schedule a personal interview with program personnel.

Required Program Core

11 CH

Phlebotomy (113)

109 Phlebotomy Practicum & Seminar I	5
209 Phlebotomy Practicum & Seminar II	6

TOTAL PROGRAM MINIMUM CREDIT HOURS 11 CH

Applications for the program are taken March through August and the program begins each fall. For more information on the Phlebotomy program, call (312) 850-7383 or 7354..

PROGRAMS OF STUDY

HEALTH SCIENCE

PHYSICIAN ASSISTANT (PA) 262

Associate in Applied Science (A.A.S.) 78 Credit Hours (CH)

Physician Assistants (PA) are “academically and clinically prepared to provide healthcare services with the direction and responsible supervision of a physician.” Graduate PAs perform many of the medical tasks traditionally performed by physicians. Physician Assistants, when certified and licensed, are qualified to practice medicine as part of a team with their supervisory physician. PAs perform histories and physical examinations, diagnose and treat illnesses, order and interpret laboratory tests, counsel patients on preventive health, suture wounds, set fractures, and assist in surgery. Physician assistants can write prescriptions in 50 states, the District of Columbia and Guam. The scope of practice and delegation of medical tasks is determined by the supervising physician in compliance with state statute and regulation as well as institutional policy. Each physician/PA team strives to establish a process for supervision and ongoing performance evaluation, which ensures high quality patient care, satisfaction, and continued professional growth.

A PA must have excellent verbal and writing skills and be able to communicate in a culturally appropriate manner. In addition, a PA is required to have detailed knowledge of basic sciences, behavioral sciences and a foundation in general higher education.

Licensure and Certification – All states require a physician assistant to pass the Physician Assistant National Certification Exam (PANCE) as a requirement for state licensure. To maintain certification, a PA must complete 100 hours of continuing medical education every two years and take a recertification examination every six years.

The John H. Stroger Jr. Hospital of Cook County/Malcolm X College PA program was the first physician assistant program established in Illinois and remains the sole publicly-sponsored program in northern Illinois. It was first accredited in 1988 and is presently accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). The SHCC/MXC PA program is a full-time 25-month program with resources located at Malcolm X College, John H. Stroger Jr. Hospital of Cook County and several other medical facilities. Graduates receive an Associate of Applied Science degree and Certificate of Completion.

Master’s Degree Option – Students entering the Program with a Bachelor’s degree have the option to enroll in a Master of Medical Science degree during their clinical year with an affiliated university.

For more information contact the Physician Assistant Program office at 312-850-7255.

Program Admission Requirements

To be considered for admission into the Physician Assistant program, an applicant must have the following:

- GPA of 3.0 in completion of all prerequisite courses, and a GPA of 3.0 in completion of all science prerequisite courses with a minimum grade of “C” in all prerequisite science course credit.
- Must have a high school diploma or GED.
- Should have a minimum of 1000 hours in non-volunteer direct patient contact healthcare experience.
- Must have all college prerequisites for an Associate’s degree including 6 credit hours in English, 8 credit hours in Natural Sciences, and 3 credit hours in Psychology.
- Foreign transcripts must be evaluated by City Colleges of Chicago.

Prerequisite General Education Courses	Credit Hours
English 101 Composition	3
Speech/ Public Speaking	3
General Biology	4
General or Organic Chemistry	4
Psychology	3
Introductory Statistics (Math 125)	4
Computer Information Systems comparable to CIS 120	3

Total Prerequisite General Education Courses 24 CH

Prerequisite Science Courses

Organic Chemistry I or Biochemistry	4
Organic Chemistry II, Genetics or medical science Course at 200-level or above (e.g. Pathophysiology or Immunology)	4
Microbiology 233	4
Anatomy / Physiology I (Biology 226) or Anatomy with lab	4
Anatomy / Physiology II or Physiology (Biology 227) with lab	4
Medical Terminology or Competency Exam	3

Total Prerequisite Science Courses 23 CH

Total Combined General Education and Science Prerequisites 47 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

Other Admission Requirements

To be eligible for consideration for admission, the applicant must have the minimum academic prerequisites and healthcare experience.

- ◆ All science courses must have been completed within five years of admission. Exceptions may be considered on a case-by-case basis for candidates with documented academic excellence and appropriate clinical experience.
- ◆ Healthcare Experience: applicants should have a minimum of 1000 hours in non-volunteer direct patient contact healthcare experience. The PA Admissions Committee, using a standardized procedure, considers the nature and quality of healthcare experience in evaluating an applicant's preparation. Direct patient care and other healthcare experience in the United States' healthcare system is ranked higher than experience in other areas. Once an applicant reports more than 10 years' experience, the Admission Committee does not assign the applicant additional recognition.
- ◆ Science Course Five-Year Rule: Science courses must be completed within the last five years or be retaken. Applicants may choose to take higher level courses or competency examinations, e.g., ACT or CLEP, for credit. A waiver of the five-year rule may be granted at the discretion of the PA Program staff and faculty on a very limited case-by-case basis for the candidate with documented academic excellence and appropriate clinical experience. Waiver requests using program forms and including the appropriate documentation should be received by the final date of application. Please obtain a waiver request form, if needed, from the Physician Assistant Program office. An additional fee may be required for waiver review.
- ◆ Medical Terminology: Noncredit courses in Medical Terminology and those from non-college diploma programs (for example, many hospital-based health technician programs) are not equivalent to a three credit course in Medical Terminology at an accredited college or university. Applicants may arrange an examination for college credit in Medical Terminology by contacting the City Colleges of Chicago Office of Testing (312) 553-3294. There is a fee of \$75.00 and preregistration is required. Examinations are scheduled at 10:00 a.m. Tuesday, Wednesday and Thursday mornings at 226 West Jackson in Chicago. Please allow at least 6 weeks to arrange for testing and final scores to be computed. You must request your scores be sent directly to the PA program. Candidates who fail the examination may not repeat it until six (6) months have passed. An application form may be printed from the website at www.ccc.edu.
- ◆ Applicant Interviews: Interviews are granted only to those applicants who have met or exceeded the Admissions Committee's criteria. If an interview is requested, participation by the applicant is required to be considered for final selection.

- ◆ Selection Factors: Evaluation of applicants is based on academic history, references, healthcare experience, personal statements/short essays, personal interviews, and a preadmission exam. Priority is given to Illinois residents and to those with a documented commitment to primary care and an underserved community practice.

Admission to the SHCC/MXC PA Program is extremely competitive. Completion of prerequisites and length of healthcare experience does not guarantee acceptance into the program.

APPLICATION DEADLINE AND FEE – All applications are online through Central Application Service for Physician Assistants (CASPA) at <https://portal.caspaonline.org>. Application fees are determined by CASPA. The deadline for matriculation is March 1 of each year. An additional fee may be required for review of a waiver request.

Notification of Admission to the Program:

Acceptance to the program is offered in May of each year.

Applicant Response to Acceptance Offer:

Mid-May; candidates offered admission may not defer. There is no waiting list for subsequent years; therefore those who are not accepted must reapply.

Other Costs:

In addition to tuition and fees, PA students are required to bear additional estimated costs: medical equipment and supplies for two years (estimated) \$1,300; books and classroom supplies for two years (estimated) \$2,770.

Health Insurance:

Physician assistant students are required to maintain comprehensive health insurance coverage because of the risk for accidental exposure to infectious agents and to other hazards associated with the healthcare environment.

Physician assistant students will incur additional travel costs for off-site clinical training experiences in the Chicago metropolitan area.

Financial Aid:

Eligibility and amounts will vary.

Policies Affecting Accepted/Admitted Physician Assistant Students:

The program is a full-time course of studying with no provision for part-time or evening study. Due to the intensity of the physician assistant program and the necessary time commitment for classroom instruction, clinical training experiences, and study, students are strongly discouraged from working. Therefore, physician assistant students must be able to maintain sufficient flexibility to respond to schedule changes, unexpected patient care demands, and the educational objectives of the program.

PROGRAMS OF STUDY

HEALTH SCIENCE

Advanced Placement:

The SHCC/MXC PA Program does not offer advanced placement in core PA courses regardless of a student's previous course work or experience in another healthcare/medical field.

Health Evaluation, Physical Examination and Immunity:

Students are required to submit documentation of their medical histories, physical examination and proof of immunity in the forms of laboratory test results, immunization documents, and/or letters from their physicians before receiving a hospital ID or badge. Immunization documentation and laboratory tests must be updated as required by clinical training sites. The Hepatitis B immunization series is required for students who are not immune.

Academic Performance and Attendance:

Students in the SHCC/MXC PA Program must earn a grade of "C" or better in all PA courses and course enhancements in order to remain in the program. Grading includes measures of professionalism and participation in program classes and activities. Attendance in all scheduled classes, activities, clinical rotation, physical diagnosis, and skills practice sessions is required. Scheduled classes/activities may occur all days of the week (including weekends), during day, evening and night hours.

Malpractice Insurance:

The City Colleges of Chicago provides enrolled physician assistant students with malpractice insurance coverage.

Licensure Issues:

Please be advised that the State of Illinois and other jurisdictions and credentialing bodies determine the criteria for professional licensure, certification, registration, or employment. Physician assistants must meet the same high standards required of physicians, nurses, and other health professionals. Applicants with histories of impairments such as alcoholism, drug and substance abuse, certain mental illnesses or other disabilities may be denied licensure by healthcare organizations. Applicants with felony and other convictions also may be denied licensure by these same organizations.

Conduct:

Students are required to follow the rules of conduct policies and procedures established by Malcolm X College and the John H. Stroger, Jr. Hospital of Cook County, other affiliated settings, and the physician assistant program.

Changes:

Physician assistant program admission requirements, curriculum, courses, affiliations, and expenses are subject to change without notice.

Physician Assistant (PA) Year 1

Summer Session

	<i>Credit Hours</i>
Physician Assistant (129)	
110 Gross Anatomy for PA's	3
111 Professional Development for PA's	1
112 Pathophysiology I for the PA	2
Semester Total	6 CH

Fall Semester

	<i>Credit Hours</i>
Physician Assistant (129)	
101 Applied Clinical Skills I	4
102 Medical Sciences I	4
103 History & Physical Assessment I	3
107 Medical Pharmacology I	2
113 Pathophysiology II for the PA	2
Semester total	15 CH

Spring Semester

	<i>Credit Hours</i>
Physician Assistant (129)	
105 Medical Science II	4
106 History & Physical Assessment II	3
114 Medical Pharmacology II	2
215 Nutritional Concepts	3
Semester Total	12 CH

Spring Subterm V (May-June)

	<i>Credit Hours</i>
Physician Assistant (129)	
104 Applied Clinical Skills II	2
109 Medical Science III	3
214 Independent Study	3
Semester total	8

Total First Year

41 CH

Physician Assistant (PA) Year 2

Summer, Fall, Spring and Mini Summer Terms

	<i>Credit Hours</i>
Physician Assistant (129)	
201 Internal Medicine	3
202 Emergency Medicine	3
203 General Surgery	3
204 Trauma Surgery	3
205 Pediatrics	3
206 Obstetrics/Gynecology	3
207 Family Practice	3
208 Psychiatry/Mental Health	3
209 Geriatrics	3
210 Orthopedics	3
211 Elective Clinical Rotations	3
213 Seminar Special Topics in Healthcare	4

Total Second Year

37 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS

78 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

RADIOGRAPHY 246

*Associate in Applied Science Degree (A.A.S.)
75 Credit Hours (CH)*

The study of the theory, technical skills, patient care, and techniques necessary to use radiation in the diagnosis of disease can lead to employment as an X-ray technologist or radiographer in private and public hospitals, clinics, and laboratories. The Associate in Applied Science 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 a healthcare team.

The Radiography Associate Degree Program is offered at Malcolm X College and Wilbur Wright College. Malcolm X College's program begins in the summer and Wilbur Wright College's program begins in the fall.

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.

Admission Requirements

Admission is competitive. In order to be considered for Admission to the Radiography Associate Degree Program, a student must:

- Be at least 18 year of age.
- Have at least a 2.5 GPA.
- Provide a copy of a GED certificate if applicable.
- Provide a copy of college transcripts. Please send a copy to the college Admissions Office and a copy to the Radiography Office, or you may request a copy directly from the Registrar's office.
- Complete the following prerequisite courses with a grade of "C" or better:
 - Mathematics 118 or higher
 - Biology 120 or Health Sciences 102

Note: Additional criteria for admission may be required. Please see your Academic Advisor on your campus to discuss all admissions requirements for the Associate in Applied Science Radiography degree program.

Application Period:

Malcolm X College's admission applications are accepted February 1 through April 1 of each year for admittance in the program the summer of the same year.

Wilbur Wright College's admission applications are accepted through December 1st of each year for admittance in the program the following fall.

General Education

17 CH

Biology (023)

226 Human Structure and Function I* 4

227 Human Structure and Function II* 4

CIS (032)

120 Introduction to Microcomputers 3

English (035)

101 Composition 3

Psychology (087)

201 General Psychology 3

**Prerequisite: Biology 114 or Biology 115 or Biology 121, or Consent of Department Chairperson.*

See page 51 for A.A.S. general education degree requirements.

Required Program Core

58 CH

Radiography (021)

101 Intro to the Radiation Sciences 2

102 Attitudes in Patient Care 2

105 Imaging Physics 3

115 Basic Principles of Image Production 3

124 Introduction to Patient Care 2

128 Image Evaluation 1

131 Radiographic Procedures I 2

140 Introduction to Clinical Education 4

141 Radiography Clinical Education I 4

200 Pathology 3

202 Radiology Management 1

205 Applied Radiographic Techniques 3

206 Imaging 2

208 Radiobiology 3

232 Radiographic Procedures II 4

233 Radiographic Procedures III 4

234 Special Radiographic Procedures 2

242 Radiography Clinical Education II 4

243 Radiography Clinical Education III 4

244 Radiography Clinical Education IV 5

TOTAL PROGRAM MINIMUM CREDIT HOURS

75 CH

Note: This program may be revised pending review.

PROGRAMS OF STUDY

HEALTH SCIENCE

RENAL DIALYSIS TECHNOLOGY 248

Advanced Certificate (A.C.) 36 Credit Hours (CH)

Prerequisite: English 101 Composition

First Year

First Semester

Biology (023)

121 Biology I

Renal Technology/Nephrology (018)

101 Intro to Health Care Field & Nephrology

102 Basic Hemodialysis Principles I

103 Basic Hemodialysis Principles II

104 Hemodialysis Procedures I

Semester Total

Credit Hours

5

3

3

3

3

17 CH

Second Semester

Chemistry 121

Renal Technology/Nephrology (018)

105 Heparinization / BAC in Dialysis

106 Diagnostic Tests & Procs in Nephrology

107 Hemodialysis Procedures II

108 Clinical Experience I

Semester Total

Credit Hours

4

3

3

3

3

16 CH

Summer Semester

Renal Technology/Nephrology (018)

109 Clinical Experience II

Semester Total

Credit Hours

3

3 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS

36 CH

Note: Also see A.A.S. degree program "Nephrology/Renal Technology 247"

RESPIRATORY CARE 234

Associate in Applied Science degree (A.A.S.)

71 Credit Hours (CH)

The A.A.S. 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 students 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.

Admission Requirement

Admission is competitive. In order to be considered for Admission to the A.A.S. in Respiratory Care, a student must:

- Have at least a GPA of 2.50.
- Have a personal interview with the College program personnel.
- Have their official transcripts reviewed.
- Earn a "C" or higher in:
 - Chemistry (073) 121
 - Math (045) 118 or higher
 - English (035) 101 or higher
 - Biology (023) 116 or 226 & 227

General Education

16 CH

English (035)

101 Composition *

3

Math (045)

118 or higher (Except Math 140)*

4

Physics (077)

131 Mechanics and Power

3

Humanities/Fine Arts**

(any Humanities & Fine Arts course,

3

i.e. African-American Studies 101;

Literature 121, 150)

Social Science

3

(any Social Science course)

* Courses must be taken before admission to this program.

** See page 51 for A.A.S. general education degree requirements.

PROGRAMS OF STUDY

HEALTH SCIENCE

Required Program Core

First Year

Fall I

Respiratory Therapy (061)

114 Basic Respiratory Care	4
115 Cardiopulmonary/Renal Anatomy & Physiology	3
116 Patient Assessment	2
117 Respiratory Pharmacology	1
118 Respiratory Microbiology	2
119 Respiratory Care Laboratory I	3

Spring I

Respiratory Therapy (061)

127 Clinical Practice I	3
137 Advanced Pathology & Clinical Application	3
139 Respiratory Care Laboratory II	2
141 Ventilatory Mechanics I	3

Summer

Respiratory Therapy (061)

129 Clinical Practice II	3
146 Ventilatory Mechanics II	3

Second Year

Fall II

Respiratory Therapy (061)

200 Respiratory Care Laboratory III	2
222 Clinical Practice III	3
225 Age Specific Care	3
227 Critical Care Services	4

Spring II

Respiratory Therapy (061)

224 Clinical Practice IV	4
230 Advanced Cardiopulmonary Monitoring	3
250 Cardiopulmonary Rehab Home Care	1
260 Advanced Specialty Topics	3

TOTAL PROGRAM MINIMUM CREDIT HOURS 71 CH

NOTE: This program may be revised pending review.

55 CH STERILE PROCESSING CLINICAL 269 Basic Certificate (B.C.) 11 Credit Hours (CH)

This Basic Certificate program presents the basic concepts and principles for developing skills and competencies required for infection prevention and control in the sterile processing department in a health care facility. This program will offer basic knowledge related to instrumentation connected with surgical procedures. The students will be involved in processes such as cleaning, disinfecting, decontamination, sterilization, standard precautions, and universal precautions. The student will gain basic knowledge concerning various types of central service equipment such as ultrasonic cleaning, washer sterilizers, cart washers, autoclaves, steris, sterrad and ethylene oxide (ETO) machines.

Note: Graduates are eligible to write the International Association of Healthcare Central Service Material Management Examination (IAHCSMM).

Program Requirements for Admission

- Consent of Program Director.
- Submit an application and interview with the Program Director/Program Personnel.
- Co-enroll in Sterile Processing 216 and 217.
- Prerequisite for Sterile Processing 217 is a "C" or better in 216.
- English 101 Composition recommended before the Surgical Technology courses.
(3 credit hours is part of program total)

Required Program Core 11 CH

English (035)	3
101Composition	3
Surgical Technology (016)	3
217 Sterile Processing Technology Lab	4
216 Sterile Processing Technology	4

TOTAL PROGRAM MINIMUM CREDIT HOURS 11 CH

PROGRAMS OF STUDY

HEALTH SCIENCE

SURGICAL TECHNOLOGY 267

Associate in Applied Science degree (A.A.S.)

61 Credit Hours (CH)

Surgical technologists (formerly called operating room technicians) perform many different responsibilities in the operating room. They act as the scrub person, as the circulator, and as the first assistant on the surgical team. Surgical technologists' responsibilities involve preparing the operating room and instruments, equipment, and supplies that will be needed; positioning and preparing the patient for surgery; and passing instruments, sponges, and sutures to the surgeon. Surgical technologists are the surgical team's experts in aseptic technique, being constantly vigilant for any break in the technique that could endanger the sterile field. Surgical technologists belong to a separate non-nursing profession and are highly skilled, having completed the necessary specialized education and training focused on working in the operating room. The preferred entry-level education for the surgical technologist is the associate degree.

Program Prerequisites

Must be met through credit, waiver or exemption

English (035)

101 Composition 3

Health Science (124)

102 Professional Medical OR

Biology (023)

120 Terminology for Medical Careers 3

121 Biology I

226 Human Structure and Function I

Admission requirements

- Submit a complete application to the Surgical Technology program.
- Submit three letters of recommendation.
- Provide official transcripts of all college courses taken by applicant.
- Conduct a personal interview with program personnel.
- Submit application by April 15 of each year to the Surgical Technology Department, Room 3511.
- Complete all of the program prerequisites.

First Year

First Semester

Biology (023)

227 Human & Structure Function II 4

Business (030)

Business Communications 3

Surgical Technology (016)

111 Intro to Surgical Technology 3

112 Preparation for Surgery 4

113 Special Patient Care 3

Semester Total

17 CH

Second Semester

Surgical Technology (016)

114 Surgical Interventions I 4

115 Surgical Interventions II 4

116 Surgical Interventions III 4

Semester Total

12 CH

Summer Term

Social Science (088)

101 OR 102 General Course I OR II 3

Surgical Technology (016)

117 Surgical Pharmacology 2

200 Application of Aseptic Technique 3

Semester Total

8 CH

Second Year

Third Semester

Sociology (089)

201 Intro to Sociology 3

Speech (095)

101 Fundamentals of Speech Communication 3

Surgical Technology (016)

211 Surgical Intervention IV 2

212 Clinical Practicum I 5

Semester Total

13 CH

Fourth Semester

Psychology (087)

201 General Psychology 3

Surgical Technology (016)

213 Clinical Practicum II 8

Semester Total

11 CH

TOTAL PROGRAM MINIMUM CREDIT HOURS

61 CH