



DEGREE CODE:  
AS 0211

### PATHWAY: Mathematics

Visit your College Advisor, [ccc.edu](http://ccc.edu), or your college's Transfer Center for more information.

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.

Choose your courses with your College Advisor.

Communications and mathematics pre-credit requirements. Placements based on current placement instrument, ACT or department chair recommendation.			College-level courses that can be taken while in pre-credit courses.	
ENGLISH PLACEMENT	READING PLACEMENT	MATHEMATICS PLACEMENT	GENERAL EDUCATION COURSES	ELECTIVE COURSES
<input type="checkbox"/> ESL/FS Writing	<input type="checkbox"/> ESL/FS Reading	<input type="checkbox"/> FS Mathematics I	<input type="checkbox"/> Humanities: Africana Studies 101	<input type="checkbox"/> College Success
<input type="checkbox"/> ESL/English 98	<input type="checkbox"/> ESL/Reading 99	<input type="checkbox"/> FS Mathematics II	<input type="checkbox"/> Biology 107	
<input type="checkbox"/> ESL 99	<input type="checkbox"/> ESL Reading 100	<input type="checkbox"/> Mathematics 98		
<input type="checkbox"/> ESL/English 100	<input type="checkbox"/> Reading 125	<input type="checkbox"/> Mathematics 99		

## 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.

D	SEMESTER 1	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	English 101–Composition I (3)	<i>Communications</i>	<b>DO THIS</b> –Meet with advisor to discuss academic goals and plan coursework <b>DO THIS</b> –Begin research on four-year schools
●	Mathematics 207–Calculus and Analytic Geometry I (5)	<i>Mathematics</i>	
●	Social & Behavioral Sciences course (3)	<i>Social &amp; Behavioral Sciences</i>	
●	Speech 101–Fundamentals of Speech Communication (3)	<i>Communications</i>	
<b>14 CREDIT HOURS</b>			
D	SEMESTER 2	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	English 102–Composition II (3)	<i>Communications</i>	<b>DO THIS</b> –Mid-term check-in with advisor <b>DO THIS</b> –Visit your campus Transfer Center to discuss options and create a short list of four-year schools for potential transfer
●	Mathematics 208–Calculus and Analytic Geometry II (5)	<i>Mathematics</i>	
●	Physics 235–Engineering Physics I: Mechanics and Wave Motion (5)	<i>Physical Sciences</i>	
●	Social & Behavioral Sciences course (HD) (3)	<i>Social &amp; Behavioral Sciences (HD)</i>	
<b>16 CREDIT HOURS</b>			
D	SEMESTER 3	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	Mathematics 209–Calculus and Analytic Geometry III (5)	<i>Elective</i>	<b>DO THIS</b> –Mid-term check-in with advisor <b>DO THIS</b> –Begin seeking additional four-year funding outlets such as scholarships and aid
●	Life Sciences course (3)	<i>Life Sciences</i>	
●	Mathematics 210–Differential Equations (3)	<i>Elective</i>	
●	Program Elective (3)	<i>Elective</i>	
●	Humanities (3)	<i>Humanities</i>	
<b>17 CREDIT HOURS</b>			
D	SEMESTER 4	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	Mathematics 212–Linear Algebra (3)	<i>Elective</i>	<b>COMPLETION</b> of Associate in Science degree in Mathematics
●	Fine Arts course (3)	<i>Fine Arts</i>	
●	Elective (3)	<i>Elective</i>	
●	Chemistry 201–General Chemistry I (5)	<i>Physical Sciences</i>	
<b>14 CREDIT HOURS</b>			
<b>DEGREE MINIMUM: 60 CREDIT HOURS // PATHWAY TOTAL: 61 CREDIT HOURS</b>			

# CITY COLLEGES OF CHICAGO 2019–20 ACADEMIC CATALOG

## NATURAL SCIENCES

### PROGRAM ELECTIVES

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Comparative Religion 101–Introduction to Religion (3)  | <input type="checkbox"/> Mathematics 210–Differential Equations (3)  | <input type="checkbox"/> Philosophy 106–Introduction to Philosophy (3)                     |
| <input type="checkbox"/> Comparative Religion 108–Religion and Psychology (3)   | <input type="checkbox"/> Mathematics 212–Linear Algebra (3)  | <input type="checkbox"/> Philosophy 107–Ethics (3)   |
| <input type="checkbox"/> Chemistry 121–Basic Chemistry I (4)                    | <input type="checkbox"/> Mathematics 140–College Algebra (4) and Mathematics 141–Plane Trigonometry (3) OR Mathematics 143–Precalculus (6) | <input type="checkbox"/> Physics 236–Engineering Physics II: Electricity and Magnetism (5) |
| <input type="checkbox"/> Mathematics 209–Calculus and Analytic Geometry III (5) |  | <input type="checkbox"/> Additional electives such as Comparative Religion                 |

1. Chemistry 121 should only be taken if the student needs it for admittance into Chemistry 201.
2. Mathematics 143 should only be taken if the student it for admittance into Mathematics 207.

D = DEGREE // AC = ADVANCED CERTIFICATE // BC = BASIC CERTIFICATE

Programs offered at:

