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 and speak with your college advisor to learn more about IAI.

Choose your courses with your College Advisor.

<table>
<thead>
<tr>
<th>ENGLISH PLACEMENT</th>
<th>READING PLACEMENT</th>
<th>MATHEMATICS PLACEMENT</th>
<th>GENERAL EDUCATION COURSES</th>
<th>ELECTIVE COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL/FS Writing</td>
<td>ESL/FS Reading</td>
<td>FS Mathematics I</td>
<td>Humanities: Africana Studies 101</td>
<td>College Success</td>
</tr>
<tr>
<td>ESL/English 98</td>
<td>ESL/Reading 99</td>
<td>FS Mathematics II</td>
<td>Biology 107</td>
<td></td>
</tr>
<tr>
<td>ESL 99</td>
<td>ESL Reading 100</td>
<td>Mathematics 98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL/English 100</td>
<td>Reading 125</td>
<td>Mathematics 99</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DEGREE CODE: AS 0211

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**

- Communications
- Mathematics
- Social & Behavioral Sciences
- Communications

**ACHIEVEMENTS & NEXT ACTIONS**

- English 101—Composition I (3)
- Mathematics 207—Calculus and Analytic Geometry I (5)
- Social & Behavioral Sciences course (3)
- Speech 101—Fundamentals of Speech Communication (3)

**14 CREDIT HOURS**

**D SEMESTER 2**

**CATEGORY**

- Communications
- Mathematics
- Physical Sciences
- Social & Behavioral Sciences (HD)

**ACHIEVEMENTS & NEXT ACTIONS**

- English 102—Composition II (3)
- Mathematics 208—Calculus and Analytic Geometry II (5)
- Physics 235—Engineering Physics I: Mechanics and Wave Motion (5)
- Social & Behavioral Sciences course (HD) (3)

**16 CREDIT HOURS**

**D SEMESTER 3**

**CATEGORY**

- Elective
- Life Sciences course (3)
- Mathematics 210—Differential Equations (3)
- Program Elective (3)
- Humanities (3)

**ACHIEVEMENTS & NEXT ACTIONS**

- Mathematics 209—Calculus and Analytic Geometry III (5)
- Life Sciences course (3)
- Mathematics 210—Differential Equations (3)
- Program Elective (3)
- Humanities (3)

**17 CREDIT HOURS**

**D SEMESTER 4**

**CATEGORY**

- Elective
- Fine Arts course (3)
- Elective (3)
- Chemistry 201—General Chemistry I (5)

**ACHIEVEMENTS & NEXT ACTIONS**

- Mathematics 212—Linear Algebra (3)
- Fine Arts course (3)
- Elective (3)
- Chemistry 201—General Chemistry I (5)

**COMPLETION** of Associate in Science degree in Mathematics

**14 CREDIT HOURS**

**DEGREE MINIMUM: 60 CREDIT HOURS // PATHWAY TOTAL: 61 CREDIT HOURS**
### PROGRAM ELECTIVES

- Comparative Religion 101—Introduction to Religion (3)
- Comparative Religion 108—Religion and Psychology (3)
- Chemistry 121—Basic Chemistry I (4)
- Mathematics 209—Calculus and Analytic Geometry III (5)
- Mathematics 210—Differential Equations (3)
- Mathematics 212—Linear Algebra (3)
- Mathematics 140—College Algebra (4) and Mathematics 141—Plane Trigonometry (3) or Mathematics 143—Precalculus (6)
- Philosophy 106—Introduction to Philosophy (3)
- Philosophy 107—Ethics (3)
- Physics 236—Engineering Physics II: Electricity and Magnetism (5)
- 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 needs it for admittance into Mathematics 207.

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

Programs offered at: [City Colleges of Chicago](https://www.ccc.edu)