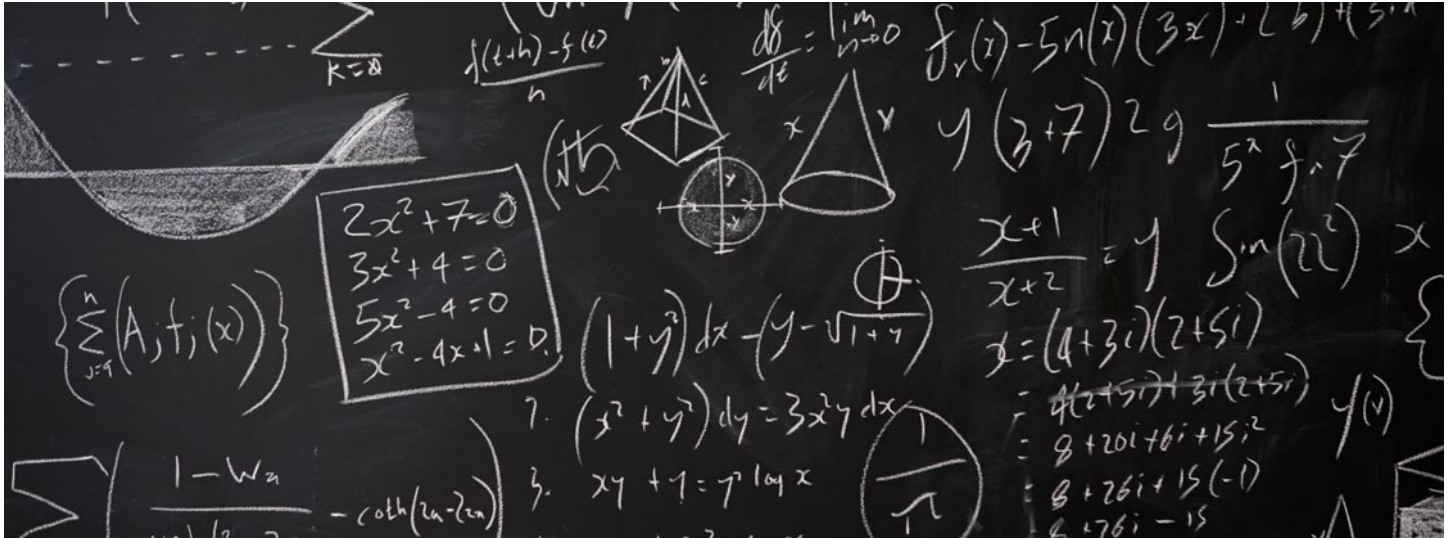


MATHEMATICS, ASSOCIATE IN SCIENCE



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

Program Code: 0211

Sample Transfer 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.

Institution-specific transfer guides and agreements can be found on CCC's transfer site (<https://www.ccc.edu/services/Pages/Transfer-Guides.aspx>).

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

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

Semester 1		Hours
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		Hours
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		Hours
MATH 209	Calculus & Analytic Geometry III ²	5
Life Sciences course ¹		3
MATH 210	Differential Equations ²	3
Pathway Elective (p. 2) ²		3
Humanities ¹		3
Hours		17
Semester 4		Hours
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. 2)

Pathway ElectivesS

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.