

Mathematics – Associate of Science

The Associate of Science with an emphasis in Mathematics is a two-year degree for students who intend to transfer to a university to complete a mathematics or mathematics education degree. Students should consult their transfer institution for specific transfer requirements.

Prerequisites

The student will need to demonstrate proficiencies in reading, English, and mathematics based on the COMPASS assessment test, ACT or SAT scores, or by taking the recommended/required classes. Some of the courses in this curriculum have specific prerequisites.

General Education (GE) Courses

In order to graduate with a college degree, all students are required to take certain general education courses. These include English composition, speech, wellness, science, art and humanities, mathematics, computer systems, and social and behavioral science.

Program Core Courses

MATH 150 Analytic Geometry and Calculus I, MATH 155 Analytic Geometry and Calculus II, MATH 253 Analytic Geometry and Calculus III, MATH 143 Elementary Statistics, and MATH 255 Differential Equations.

Program Elective Courses

CSIS 102 Visual Basic or CSIS 240 C++ Programming.

Program Outcomes

Students will be able to:

1. Define arithmetic, algebraic, geometric, spatial, and statistical concepts.
2. Calculate arithmetic, algebraic, geometric, spatial, and statistical quantities using appropriate technology.
3. Estimate arithmetic, algebraic, geometric, spatial, and statistical solutions.
4. Solve arithmetic, algebraic, geometric, spatial, and statistical expressions, equations, functions, and problems using appropriate technology.
5. Represent mathematical information numerically, symbolically, graphically, verbally, and visually using appropriate technology.
6. Develop mathematical and statistical models such as formulas, functions, graphs, tables, and schematics using appropriate technology.
7. Interpret mathematical and statistical models such as formulas, functions, graphs, tables, and schematics, drawing conclusions and making inferences based on those models.
8. Explore mathematical systems utilizing rich experiences that encourage independent, nontrivial, constructive exploration in mathematics.
9. Communicate mathematical thoughts and ideas clearly and concisely to others in the oral and written form.

Course Sequence

The listing that follows is a recommended sequence of courses for full-time students. The student should consult with an advisor for information specific to their academic situation.

Mathematics – Associate of Science Recommended Sequence of Courses

(Fall) Semester I		Cr Hrs
COMM 207	Fundamentals of Speech	3
PSYC 100	First Year Seminar	1
ENGL 101	English Composition I	3
MATH 150	Analytic Geometry and Calculus I	5
MATH 122	Plane Trigonometry	3
Total		15

(Spring) Semester II		
ENGL 289	English Composition II	3
MATH 143	Elementary Statistics	3
MATH 155	Analytic Geometry and Calculus II	5
PSYC 155	General Psychology	3
	Arts/Humanities Elective	3
Total		17

(Fall) Semester III		
	Physical Science Elective	3
	Physical Science Elective Lab	2
CSIS 100/130	Computer Concepts and Applications or Intro to Computer Information Systems	3
MATH 253	Analytic Geometry and Calculus III	3
	Arts/Humanities Elective	3
	Social/Behavioral Science Elective	3
Total		17

(Spring) Semester IV		
MATH 255	Differential Equations	3
HPER 150	Lifetime Fitness	1
	Biological Science Elective	3
	Biological Science Elective Lab	2
	Social/Behavioral Science Elective	3
	Arts/Humanities Elective	3
Total		15

Total Program Credits 64

For more information contact:

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