MATHEMATICS

The mathematics curriculum is designed to provide students with a sound working base in mathematics, develop the student's ability to apply mathematical symbolism, enhance the student's problem solving and critical thinking skills, increase the student's ability to think abstractly, increase the student's ability to work independently on mathematics, and create a positive outlook toward mathematics.

The various mathematics courses provide the necessary foundation for vocational programs, as well as the requirements for the two-year liberal arts programs and preprofessional programs. They also provide preparation for mathematics majors who plan to transfer to a four-year institution.

Suggested Pathway of Study for Associate of Science Degree (2 years)

FIRST YEAR

First Semester

Course	Credits
ENGL 1010 English Composition I*	3
MATH 1600 Analytic Geometry and Calculus I*	5
CHEM 1090 General Chemistry I* **OR**	
CHEM 1140 General Chemistry I for Majors*	4-5
Elective**	3
	15-16

Second Semester

Course	Credits
English/Literature*	3
CHEM 1100 General Chemistry II* **OR**	
CHEM 1160 General Chemistry II for Majors*	4-5
MATH 2010 Analytic Geometry and Calculus II*	5
PHYS 2110 General Physics I with Calculus	5
	17-18

SECOND YEAR

First Semester

Course	Credits
MATH 2100 Ordinary Differential Equations	3
Behavioral & Social Sciences*	3
Oral Communication*	3
PHYS 2120 General Physics II with Calculus	5
	14

Second Semester

Course	Credits
English/Literature,*	
Fine Arts and Language,* **OR**	
Behavioral or Social Science*	3-4
MATH 2020 Analytic Geometry and Calculus III	5
MATH 2170 Applied Statistics	3
Elective(s)**	3-6
	14-18

Total Credit Hours 60-66

To earn an associate of science degree, a student must satisfactorily complete a minimum of 60 semester hours that include the general education requirements.

*Course fulfills a general education requirement for Northeast Community College. See general education requirements.

**See advisor for assistance choosing elective(s) based on professional goals and transfer institution.