

A.S. Degree

General Education Requirements

Communication **9 hours**

ENGL 1010 Composition I 3 hours

ENGL 1020 Composition II 3 hours

SPCH 1010 Fundamentals of
Speech Comm. or other
approved
speech/communication course 3 hours

Humanities and/or Fine Arts (at least one course in literature) **9 hours**

Social/Behavioral Sciences **6 hours**

History **6 hours**

Natural Sciences **8 hours**

PHYS 2110 Calculus-based
Physics I 4 hours

PHYS 2120 Calculus-based
Physics II 4 hours

Mathematics **4 hours**

Math 1910 Calculus I 4 hours

General Education Total **42 hours**

Area of Emphasis

MATH 1920 Calculus II 4 hours

MATH 2110 Calculus III 4 hours

MATH 2010 Linear Algebra 3 hours

MATH 2120 Differential
Equations 3 hours

CHEM 1110 General Chemistry
I 4 hours

ENGR 2110 Statics 3 hours

ENGR 2120 Particles and Rigid
Bodies 3 hours

Area of Emphasis Total **24 hours**

Mechanical Engineering Total **66 hours**

Additional Information

Students are strongly encouraged to complete a course in Mechanics of Materials, also known as Strength of Materials, before transferring to a university.

Courses in engineering technology do not fulfill any of the requirements for the Area of Emphasis in Mechanical Engineering.

Although it is possible to complete the B.S. Degree in Mechanical Engineering in four semesters after earning the associate's degree, students typically need five or six semesters to complete requirements.