

Bachelor of Science in Engineering Technology

Degree Requirements

Candidates for the Bachelor of Science must meet the following requirements.

- 1. Hours Required for the Degree:** Completion of a minimum of 131 total semester hours; 42 must be advanced.
- 2. General University Requirements:** See “General Degree Requirements” in the Academics section of this catalog.
- 3. College of Arts and Sciences Core Curriculum:** Minimum 61 hours (includes requirements of University Core Curriculum). See “Arts and Sciences Core Curriculum” in the College of Arts and Sciences section of this catalog for specific core requirements and list of approved courses. See four-year plan for exact hours and modifications.
- 4. Major Requirements:** 63-69 hours from one of five concentrations chosen with the advice of an academic adviser within the department.
- 5. Minor Requirements:** The above major integrates the traditional major and minor requirements. No additional hours required for a minor.
- 6. Electives:** Elective courses within each concentration must be approved by the student’s academic adviser.
- 7. Other Course Requirements:** MATH 1650, 1710 and 1720. Students registering for fall or spring semester must register for mathematics until the requirement has been satisfied, unless approved by the department chair.
- 8. Other Requirements:** PHYS 1710/1730 and 2220/2240 and CHEM 1420/1440 (with departmental approval) must be taken to satisfy the laboratory science requirement of the Arts and Sciences Core.

The English requirement is met by the following courses: ENGL 1310, 2700, 2210 and 2220.

A 2.5 GPA is required for engineering technology courses in the area of concentration.

DRED (Traffic Safety) courses may not be used to satisfy any portion of a degree in the College of Arts and Sciences.

Mechanical Engineering Technology (MEET)

The mechanical engineering technology concentration is built upon a strong foundation of science, mathematics and technical course work designed to meet the diverse needs of the mechanical designer. Mechanical engineering technology concepts are used in all types of industry and are applied directly to product design, and produce the tools for that product, and assist in the manufacturing process. Courses in computer-aided design, product design and development, manufacturing processes and materials, strength of materials and quality assurance provide the student with a broad range of applications for the pursuit of a career in mechanical engineering technology. The curriculum is among the most comprehensive of technical programs, which allows for a unique combination of knowledge.

BS in Engineering Technology

Following is *one* suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment.

BS in Engineering Technology Concentration in Mechanical Engineering Technology

FRESHMAN YEAR

FALL	HOURS
CHEM 1420, General Chemistry	3
CHEM 1440, General Chemistry Laboratory	1
CSCI 1110, Program Development	3
ENGL 1310, College Writing I	3
MATH 1650, Pre-Calculus ⁴	5
MEET 1280, Engineering Graphics ³⁵	<u>3</u>
Total	18

SOPHOMORE YEAR

FALL	HOURS
CNET 2220, Statics	3
COMM 2040, Public Speaking	3
ENGL 2220, World Literature II	3
MATH 1720, Calculus II	3
MEET 1410, Descriptive Geometrical Drawing	3
Wellness ¹¹	<u>2-3</u>
Total	17-18

JUNIOR YEAR

FALL	HOURS
MEET 3330, Computer-Aided Design I	4
MFET 2110, Machining Principles and Processes	3
MFET 3220, Strength of Materials	3
MFET 3940, Fluid Mechanics Applications	3
PSCI 1040, American Government	<u>3</u>
Total	16

SENIOR YEAR

FALL	HOURS
ELET 3960, Network Analysis	3
MEET 3050, Engineering Design Fundamentals	3
MEET 4330, Computer-Aided Design II ¹³	4
PSCI 1050, American Government	3
Technical Specialty (advanced) ¹⁶	<u>5</u>
Total	18

FRESHMAN YEAR

SPRING	HOURS
ECON 1110, Principles of Macroeconomics	3
ENGL 2210, World Literature I	3
MATH 1710, Calculus I	4
MFET 1220, Manufacturing Processes and Materials	3
PHYS 1710, Mechanics	3
PHYS 1730, Laboratory in Mechanics	<u>1</u>
Total	17

SOPHOMORE YEAR

SPRING	HOURS
ENGL 2700, Technical Writing	3
MATH 1780, Introduction to Statistical Analysis	3
MEET 2520, Dynamics	3
PHYS 2220, Electricity and Magnetism	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
Visual and Performing Arts ⁷	<u>3</u>
Total	16

JUNIOR YEAR

SPRING	HOURS
GNET 1030, Technological Systems ¹⁴	3
HIST 2610, United States History to 1865 ⁴	3
MEET 3380, Machine Drawing	3
MEET 3650, Design of Mechanical Components	3
MEET 3950, Thermodynamics and Heat Transfer	<u>3</u>
Total	15

SENIOR YEAR

SPRING	HOURS
ELET 3970, Electronic Devices and Controls	4
HIST 2620, United States History Since 1865 ¹²	3
MEET 4050, Industrial Design	3
MEET 4800, Senior Mechanical Design Project	2
Understanding of Ideas and Values ^{16, 19}	<u>3</u>
Total	15

*Note: Some courses may require prerequisites not listed.
See Arts and Sciences footnotes.*
