

# 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:** 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 and tool design and to

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.

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## 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	4
ENGL 1310, College Writing I	3
MATH 1650, Pre-Calculus <sup>4</sup>	5
MEET 1280, Engineering Graphics <sup>35</sup>	<u>3</u>
Total	18

#### SOPHOMORE YEAR

FALL	HOURS
GNET 1030, Technological Systems <sup>19</sup>	3
MATH 1720, Calculus II	3
MEET 2330, Computer-Aided Design	3
MFET 2110, Machining Principles and Processes	4
MFET 2450, Engineering Materials	<u>3</u>
Total	16

#### JUNIOR YEAR

FALL	HOURS
COMM 2040, Public Speaking	3
ELET 3960, Network Analysis	3
MFET 3240, Statics and Strength of Materials	4
MFET 3940, Fluid Mechanics Applications	3
MSCI 3700, Statistical Analysis I	<u>3</u>
Total	16

#### SENIOR YEAR

FALL	HOURS
ENGL 2220, World Literature II	3
HIST 2610, United States History to 1865 <sup>4</sup>	3
MEET 4350, Heat Transfer Applications <sup>13</sup>	4
MFET 4190, Quality Assurance	3
MFET 4200, Engineering Cost Analysis	2
PSCI 1040, American Government	<u>3</u>
Total	21

#### 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
MEET 2520, Dynamics	3
MEET 2940, Fluid Power Applications	2
PHYS 2220, Electricity and Magnetism	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
Understanding of Ideas and Values <sup>16, 19</sup>	<u>3</u>
Total	15

#### JUNIOR YEAR

SPRING	HOURS
ELET 3970, Electronic Devices and Controls	4
HIST 2620, United States History Since 1865 <sup>12</sup>	3
MEET 3650, Design of Mechanical Components	3
MEET 3990, Thermodynamics	3
MFET 4210, CAD/CAM System Operations	<u>3</u>
Total	16

#### SENIOR YEAR

SPRING	HOURS
MEET 4050, Industrial Design	3
MEET 4800, Senior Mechanical Design Project	2
PSCI 1050, American Government	3
Technical Option <sup>16</sup>	3
Visual and Performing Arts <sup>7</sup>	3
Wellness <sup>11</sup>	<u>2-3</u>
Total	16-17

*Actual degree plans may vary depending on availability of courses in a given semester.*

*Some courses may require prerequisites not listed.*

*See Arts and Sciences folding key (#2) for footnotes.*