

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.

Civil Engineering Technology (CVET)

The civil engineering technology concentration is designed for students interested in pursuing a professional career within civil technological systems. The course of study provides the skill base for numerous professional opportunities that include foundation construction, water and wastewater systems, control of runoff and ground water, structures, and transportation infrastructure. The program provides a broad knowledge of civil materials, equipment and building systems and procedures. The goal of the program is to provide qualified problem solvers for community development and improvement, capable of meeting challenges of pollution control, deteriorating infrastructure, traffic congestion, energy consumption, floods, earthquakes and urban redevelopment.

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 Civil Engineering Technology

FRESHMAN YEAR

FALL	HOURS
CHEM 1420, General Chemistry	3
CHEM 1440, General Chemistry Laboratory	1
CVET 1160, Construction Methods and Materials I ³⁵	4
ENGL 1310, College Writing I	3
MATH 1650, Pre-Calculus ⁴	<u>5</u>
Total	16

SOPHOMORE YEAR

FALL	HOURS
COMM 2040, Public Speaking	3
CVET 2170, Plane Surveying	3
CVET 2300, Architectural Drawing	4
CVET 3120, Environmental Control Systems	3
ENGL 2220, World Literature II	3
MATH 1720, Calculus II	<u>3</u>
Total	19

JUNIOR YEAR

FALL	HOURS
CVET 3150, Construction Contract Documents	3
CVET 3420, Industrial Materials Testing	4
MEET 3940, Fluid Mechanics Applications	3
MFET 3240, Statics and Strength of Materials	4
PSCI 1050, American Government	<u>3</u>
Total	17

SENIOR YEAR

FALL	HOURS
CVET 3190, Construction Scheduling	3
CVET 4130, Construction Cost Estimating II	3
CVET 4170, Construction Management	3
ELET 3960, Network Analysis	3
HIST 2620, United States History Since 1865 ¹²	<u>3</u>
Total	15

FRESHMAN YEAR

SPRING	HOURS
CVET 2160, Construction Methods and Materials II	4
ENGL 2210, World Literature I	3
HIST 2610, United States History to 1865 ¹²	3
MATH 1710, Calculus I	4
MEET 1280, Engineering Graphics	<u>3</u>
Total	17

SOPHOMORE YEAR

SPRING	HOURS
CSCI 1110, Program Development	4
ENGL 2700, Technical Writing	3
GNET 1030, Technological Systems ¹⁴	3
PHYS 1710, Mechanics	3
PHYS 1730, Laboratory in Mechanics	1
PSCI 1040, American Government	<u>3</u>
Total	17

JUNIOR YEAR

SPRING	HOURS
CVET 3160, Construction Cost Estimating	3
CVET 3410, Occupational Safety and Liability	3
MGMT 3820, Principles of Management	3
PHYS 2220, Electricity and Magnetism	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
CVET Option ¹³	2
Wellness ¹¹	<u>2-3</u>
Total	17-18

SENIOR YEAR

SPRING	HOURS
CVET 3390, Topographical Graphics	3
CVET 4180, Problems in Project Management	3
ECON 1110, Principles of Macroeconomics	3
Understanding of Ideas and Values ¹⁹	3
Visual and Performing Arts ⁷	<u>3</u>
Total	15

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.