

# BSET in Engineering Technology - Concentration in Civil Engineering Technology

All courses with an ENGT prefix require that the prerequisite courses (if applicable) are passed with a C- or better grade (1.700/4.000 grade point average).

Course	Title	Hours
<b>Foundation &amp; General Ed. Courses</b>		
COMM 111	Public Speaking	3
ENGL 101 or ENGL 100	College English I English Composition	3
ENGL 102	College English II	3
PHIL 385	Engineering Ethics <sup>1</sup>	3
WSUE 102A	First-Year Seminar: Introduction to Technology and Innovation	3
Fine arts, social/behavioral sciences & humanities <sup>2</sup>		12
<b>Mathematics/Natural Sciences</b>		
CHEM 211 or PHYS 214	General Chemistry I General College Physics II	5
MATH 242	Calculus I	5
MATH 243	Calculus II	5
PHYS 213	General College Physics I	5
<b>Engineering Technology Core <sup>3</sup></b>		
CS 211 or MIS 310	Introduction to Programming <sup>4</sup> Fundamentals of Business Application Development	4
ENGT 201	Introduction to Engineering Technology	1
ENGT 312	Applied Statics	3
ENGT 354	Statistical Process Control	3
ENGT 401	Senior Project I	3
ENGT 402	Senior Project II	3
IME 222	Engineering Graphics	2
IME 222L	Graphics Lab	1
IME 255	Engineering Economy	3
IME 258	Manufacturing Methods and Materials I	3
<b>Engineer of 2020 program</b>		
Completion of the Engineer of 2020 program <sup>5</sup>		
Total Credit Hours		73

<sup>1</sup> PHIL 354 is the preferred course for the Cybersecurity concentration.

<sup>2</sup> Recommend courses: ECON 201, PSY 111 or SOC 111.

<sup>3</sup> All engineering technology students must complete these courses, regardless of engineering technology concentration.

<sup>4</sup> Students taking MIS 310 will take an additional credit hour toward approved technical electives to satisfy the total hour requirements.

<sup>5</sup> Details outlined under College of Engineering Requirements (<http://catalog.wichita.edu/undergraduate/engineering/#graduationrequirements>), #6.

*Note:* Students under the mechatronics concentration will take ENGT 313 to satisfy prerequisite requirements for ENGT 348.

Course	Title	Hours
<b>Concentration: Civil Engineering Technology</b>		
ENGT 320	Circuits Technology with Lab	4
ENGT 323	Introduction to Fluids	3
ENGT 334	Introduction to Strength and Mechanics of Materials	3
ENGT 370	Environmental Engineering Technology	3
ENGT 492	Energy Management and Sustainability	3
ENGT 600	Water and Wastewater Treatment	3
ENGT 610	Hydraulics and Hydrology	3
ENGT 620	Structural Analysis and Design	3
ENGT 510	Solar and Wind Engineering	3
ME 250	Materials Engineering	3
ME 251	Materials Engineering Laboratory	1
<b>Technical Electives</b>		
Select 15 credit hours of technical electives preapproved by a faculty advisor. Students taking MIS 310 as part of the core courses will need 16 hours of technical electives. Please refer to the engineering technology (ET) website or consult with your ET advisor for current list of technical electives.		15
Total Credit Hours		47

## Applied Learning

Students in engineering technology programs are required to complete an applied learning or research experience to graduate from the programs. The requirement can be met by completing the two-course capstone design experience consisting of ENGT 401 and ENGT 402.