



WSU Tech to WSU: Associate of Arts (AA) to Engineering Technology – Civil Engineering Technology, Bachelor of Science (BSET)

Foundation Courses	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
<i>Foundation courses must be completed with a C- or better within the first 48 hours of college coursework.</i>	ENGL 101 College English 1	ENG 101 Composition I	3			
	ENGL 102 College English 2	ENG 120 Composition II	3			
	COMM 111 Public Speaking	SPH 101 Public Speaking	3			
	MATH 111 College Algebra	MTH 112 College Algebra	3			<i>AA Requirement only. Students who place into Trig or Calc do not need College Algebra.</i>

WSU Gen Ed Curriculum	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Divisional Requirements: Complete one course in each division.*	Fine Arts	ART, MUS, or THR	3			
	Humanities – PHIL 385*	No Equivalent	3			Junior Standing Req.
	Social/Behavioral Science – ID 300 Design Thinking & Innov.	No Equivalent	3			
	Math & Natural Science – MATH 242 Calc I	MTH 125 Calculus I	5			
Additional Requirements: Complete 4 courses chosen from at least 2 divisions above*	Division I – BIOL 370*	BIO 120 Env. Biology	3			
	Division II – ECON 201	ECO 105 Principles of Macroeconomics	3			
	Any Division – MATH 243	No Equivalent	5			
	Any Division – PHYS 313/315 Physics I w/ Lab*	No Equivalent	5			

- *At least 9 hours must be numbered 300 or above.
- Students with an AA or AS earned through a Kansas Community College may fulfill requirements by completing two 300-level gen ed courses at WSU.

Engineering Technology – Civil Engineering Technology Major Coursework						
	WSU Course	WSU Tech Course	CR	Grade	Sem /YR	Notes
Mathematics & Natural Sciences	MATH 242 Calculus I	MTH 125 Calculus I	5			<i>P: College Trigonometry</i>
	MATH 243 Calculus II	No Equivalent	5			<i>P: Calculus I</i>
	PHYS 313/315 Physics for Scientists I w/ lab	No Equivalent	5			<i>P/C: Calculus I</i>
	CHEM 211 General Chemistry I	CHM 125 Chemistry I	5			
	GEOL 300 Energy, Resources & Environment	No Equivalent	3			
	BIOL 370 Environmental Science	BIO 120 – Env. Biology	3			
Engineering Core	IME 222/L Engineering Graphics w/ Lab	No Equivalent	3			<i>P: MATH 123</i>
	IME 258 Manufacturing Methods I w/ lab	No Equivalent	4			<i>P: MATH 123 & IME 222/L</i>
	ME 250 Materials Engineering	No Equivalent	3			<i>P: CHEM 211 & MATH 242</i>
	ME 251 Materials Engineering Lab	No Equivalent	1			<i>C: ME 250</i>

Based on the 2020-2021 Catalog

	CS 211 Intro to Programming	No Equivalent	4			P: MATH 111
Major Coursework	ENGT 201 Introductory Design Project	No Equivalent	1			P: WSUE 102A, ID 300 or ENGR 302
	ENGT 301 Intermediate Design Project	No Equivalent	2			
	ENGT 370 Environmental Eng. Tech <i>Fall Only</i>	No Equivalent	3			P: ENGT 201 & CHEM 211
	ENGT 312 Applied Statics <i>Spring Only</i>	No Equivalent	3			C: MATH 243 P: PHYS 213
	ENGT 354 Statistical Process Control <i>Spring Only</i>	No Equivalent	3			P: MATH 243
	ENGT 320 Circuits Technology <i>Spring Only</i>	No Equivalent	4			P: MATH 242
	ENGT 401 Senior Design Project I	No Equivalent	3			P: ENGT 201 or 301
	ENGT 323 Introduction to Fluids <i>Fall Only</i>	No Equivalent	3			P: ENGT 312 & MATH 243
	ENGT 334 Intro to Strength & Mech. of Materials <i>Fall Only</i>	No Equivalent	3			P: ENGT 312 & MATH 243
	ENGT 492 Energy MGT and Sustainability <i>Fall Only</i>	No Equivalent	3			P: ENGT 370 & IME 255
	ENGT 600 Water and Wastewater Treatment <i>Spring Only</i>	No Equivalent	3			P: ENGT 323 & ENT 370
	ENGT 402 Senior Design Project II	No Equivalent	3			P: ENGT 401
	ENGT 510 Solar and Wind Engineering <i>Spring Only</i>	No Equivalent	3			P: ENGT 320 or EE 282
	ENGT 610 Hydraulics and Hydrology <i>Spring Only</i>	No Equivalent	3			P: ENGT 323
	ENGT 620 Structural Analysis and Design <i>Spring Only</i>	No Equivalent	3			P: ENGT 334
Technical Electives	Students must complete technical electives as selected with BSET advisor. Suggested courses include Survey I and Survey II		15			
Engineering+ <i>Students must select 3 of the 7 options listed here to meet Engineer of 2020 requirements</i> <i>Wichita.edu/engineering+</i>	Cooperative Education or Internship					
	Entrepreneurship and Innovation – University Innovation Fellow or complete an approved entrepreneurial competition					
	Global Learning or Study Abroad – Earn undergraduate certificate in Global Competency, participate in global learning project within a class at WSU, or complete a credit-bearing course in a foreign country where English is not the first language.					
	Multidisciplinary Education – Earn a minor, second major, or double degree or work on a two-semester project as part of a multidisciplinary team with student members outside of the College of Engineering.					
	Undergraduate Research – Compete in the university Undergraduate Research and Creative Activity Forum, submit your research for presentation at a conference, co-author of a journal or paper.					
	Leadership – Participate in a class or documented formal leadership training. Then, complete an activity where you successfully lead others to an established goal and submit a one-page summary/report to your department. Opportunities could also exist through the military, your place of employment or through student involvement. <i>Obtain preliminary approval of these activities from your department.</i>					
	Service Learning – Participate in a Service Learning course or complete a total of 40 hours of volunteer services.					

All courses with an ENGT prefix require that any prerequisite course is passed with a C- or better grade (1.700/4.000 grade point average).

ASSOCIATE OF ARTS DEGREE REQUIREMENTS

Earn credit for **60** cumulative hours.

Earn a minimum of **15** hours at WSU.

Earn a minimum of **48** hours in Liberal Arts and Sciences coursework.

Complete all general education requirements.

Maintain an overall, WSU and cumulative GPA of 2.00 or higher.

GRADUATION REQUIREMENTS FOR THE BS IN ENGINEERING TECHNOLOGY – CIVIL ENGINEERING TECHNOLOGY:

Earn credit for **120** cumulative hours.

Earn credit in a minimum of **60** hours at a 4-year institution.

Earn credit in a minimum of **45** hours of upper-division coursework.

Complete all general education requirements.

Maintain an overall, WSU, and program GPA of 2.00 or higher.

At least 24 of last 30 or 50 of last 60 credit hours must be completed at WSU.

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BSET Advising

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ET Department

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Suggested Course Sequence for WSU Tech Coursework – For WSU Gen Ed Policy				
	WSU Tech Course	CR	Prerequisite	Notes
WSU Tech Semester 1	ENG 101 Composition I	3	Entrance Score	
	MTH 112 College Algebra	3	Entrance Score	<i>*See math requirement note below.</i>
	SPH 111 Public Speaking	3		
	Fine Arts	3		
	ECO 105 Principles of Macroeconomics	3		
WSU Tech Semester 2	MTH 113 College Trigonometry	3	Entrance Score or MTH 112	<i>*See math requirement note below.</i>
	ENG 120 Composition II	3	ENG 101 w/ C or better	
	CHM 125 Chemistry I	5	See WSU Tech Advisor	
	BIO 120 Environmental Biology	3		
	ORI 003 Shocker Pathway Transition	0		
Dual Enroll Semester 3	MTH 125 Calculus I	5		<i>*See math requirement note below. @ WSU Tech</i>
	ID 300 Design Thinking & Innovation	3		
	GEOL 300 Energy, Resources & Environment	3		
	IME 222/L Engineering Graphics/Lab	3		
WSU Semester 4	MATH 243 Calculus II	5	Calculus I w/ C or better	
	PHYS 313/315 Physics for Scientists I w/ lab	5		
	ME 250/251 Materials Engineering	4		
	Technical Electives	3		

* Math placement based on entrance score. Take math course as determined by score and continue with math until math options at WSU Tech have been completed. Math sequence must be top priority for engineering majors. College Algebra and College Trigonometry not required if scores let students place out of those two courses.

Visit our Shocker Pathway website at: www.wichita.edu/academics/adult_learning/shocker_pathway.php

- Students following this plan will need to complete PHIL 385 or another humanities course to complete the AA.