



WSU Tech to Wichita State: Associate of Arts (AA) to Bachelor of Science (BS) in Industrial Engineering, [E13B]

➡ General Education: Wichita State University Policy

	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Foundation Courses Must be completed with a C- or better within the first 48 hours of college coursework.	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 <i>AA Requirement only.</i>	MTH 112 College Algebra	3			Students who place into Trig or Calc do not need College Algebra.
Divisional Courses	Fine Arts	ART 100, MUS 110 or THR 100	3			
	Humanities – PHIL 385 Engineering Ethics	No Equivalent	3			300+ level course
	Social/Behavioral Science – ECON 201	ECO 105 Principles of Macroeconomics	3			
	Math & Natural Science – MATH 242	MTH 125 Calculus I	5			
Additional Courses At least 9 hours must be numbered 300 or higher	Gen Ed Div. 1 – MATH 243	MTH 150 Calculus II	5			M/NS. See Tech advisor for limited availability.
	Gen Ed Div. 2 – Non-M/NS		3			300+ level course
	Gen Ed Any Div. – PHYS 313	No Equivalent	4			300+ level course
	Gen Ed Any Div. – PHYS 314	No Equivalent	4			300+ level course

NOTE: Students who have completed an AA or AS through a Kansas Community College may choose to fulfill general education requirements by completing two 300-level courses at Wichita State University.

➡ Math and Natural Science Requirements

	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Some of these courses may also be listed in the general education requirements	CHEM 211 General Chemistry I	CHM 125 Chemistry I	5			
	MATH 242 Calculus I	MTH 125 Calculus I	5			
	MATH 243 Calculus II	MTH 150 Calculus II	5			See Tech advisor for limited availability.
	MATH 511 Linear Algebra	No Equivalent	3			
	PHYS 313 Physics for Scientists I	No Equivalent	4			
	PHYS 314 Physics for Scientists II	No Equivalent	4			
	CS 211 or MIS 310 or MATH 451	No Equivalents	3			
	Math & Nat. Sci. Elective	CHM 135 or BIO 110	3-5			



➔ Industrial Engineering Courses

WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
IME 258/258L Manufacturing Methods I	No Equivalent	4			
IME 222/222L Engineering Graphics	No Equivalent	3			
IME 254 Probability & Statistics I	No Equivalent	3			
IME 255 Engineering Economy	No Equivalent	3			
IME 452 Work Systems	No Equivalent	3			<i>Spring only</i>
IME 524 Engineering Probability & Statistics II	No Equivalent	3			<i>Spring only</i>
IME 550 Operations Research I	No Equivalent	3			
IME 553 Production Systems	No Equivalent	3			
IME 556 Information Systems	No Equivalent	3			<i>Fall only</i>
IME 650 Operations Research II	No Equivalent	3			<i>Fall only</i>
IME 549 Industrial Ergonomics	No Equivalent	3			<i>Spring only</i>
IME 554 Statistical Quality Control	No Equivalent	3			<i>Spring only</i>
IME 565 System Simulations	No Equivalent	3			<i>Spring only</i>
IME 563 Facilities Planning	No Equivalent	3			<i>Fall only</i>
IME 590 Industrial Engineering Design I	No Equivalent	3			
IME 690 Industrial Engineering Design II	No Equivalent	3			

➔ Technical Electives

	WSU or WSU Tech Course	CR	Sem/YRs	Notes
Track-Based Technical Electives	There are three tracks from which the students may take technical electives: Manufacturing, Supply Chain and Analytics, or Systems Engineering.	9		These three technical elective courses must be from the same track.
Additional Technical Electives	Other courses that may be used as technical electives: College of Engineering courses from other programs may also be used as technical electives.	14		Up to 3 credit hours of co-op can be used as tech. electives. Equivalents may exist at WSU Tech.

➔ Engineering+ Program requirements

Students must select 3 of the 7 options listed here to meet Engineering+ requirements.	Cooperative Education or Internship
	Entrepreneurship and Innovation
	Global Learning or Study Abroad
	Multidisciplinary Education
	Undergraduate Research
	Leadership
	Service Learning

Consult the Wichita State Undergraduate Catalog for detailed information and how to satisfy each Engineering+ option. Other information found at www.wichita.edu/engineering+

➔ Connect with Shocker Pathway Resources

www.wichita.edu/academics/adult_learning/shocker_pathway.php

Instagram: ShockerPathwayWSU

Twitter: @ShockerPathway

Facebook: @WSUShockerPathway



➔ AA Graduation 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.

➔ BS in Industrial Engineering Graduation Requirements

Earn credit for **124** 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.

➔ Advising Resources

WSU Tech Academic Advisor:
 Shelby Berry
 Phone: 316.677.1727
 Email: ssmith42@wsutech.edu

Industrial Engr Advising
 Maria Lucas, Academic Advisor
 Wallace Hall, Room 108A
 316-978-2826
 IMEadvising@wichita.edu
 ISME Department

Engineering Building, Room 120
 316-978-3425

➔ Suggested Course Sequence at WSU Tech for WSU Gen Ed Policy

	WSU Tech Course	CR	Prerequisite	Notes
WSU Tech Semester 1	ENG 101 Composition I	3	Entrance Score	If not eligible for ENG 101, take first available ENG course.
	MTH 112 College Algebra	3	Entrance Score	If student places into Trig or Calculus, student does not need to start w/ College Algebra. Math sequence should be top priority for Engineering students.
	SPH 101 Public Speaking	3		
	Fine Arts	3		
	ECO 105 Principles of Macroecon	3		
WSU Tech Semester 2	ENG 120 Composition II	3	Min C in ENG 101	
	MTH 113 College Trigonometry	3	Min C in MTH 112	If student places into Calculus, need not take Trig.
	CHM 125 Chemistry I	5		
	Additional Gen Ed – 2 nd Division	3		Non-M/NS. Suggested 300+ s/bs.
	ORI 003 Shocker Pathway Transfer	0		
WSU Semester 3	MATH 242 Calculus I	5	MTH 113 w/ C	MTH 125 @ Tech if Available
	IME 222/L Engineering Graphics	3	MTH 113 w/ C	
	IME 255 Engineering Economy	3	C: MATH 242	
	Engineering+ or Technical Elective	3		
Courses at WSU to Finish AA	MATH 243 Calculus II	5		
	PHS 313 Physics for Scientists I	4		
	PHS 314 Physics for Scientists II	4		
	PHIL 385 Engineering Ethics	3		
	Engineering+ or Technical Elective	1+		