

WSU Tech to Wichita State: Associate of Arts (AA) to Bachelor of Science (BS) in Electrical Engineering, [E12B]

General Education: Wichita State University Policy

,	WSU Course WSU Tech Course		CR	Grade	Sem/YR	Notes
Foundation	ENGL 101 College English 1	ENG 101 Composition I	3			
		ENG 120 Composition II	3			
Must be	COMM 111 Public Speaking	SPH 101 Public Speaking	3			
completed with a C- or better within the first 48 hours of college coursework.	MATH 111 College Algebra AA Requirement only.	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	No Equivalent	3			300+ level course
	Social/Behavioral Science -		3			
	Math & Natural Science – MATH 242	MTH 125 Calculus I	5			
Additional Courses	Gen Ed Div.1 - MATH 243	MTH 150 Calculus II	5			M/NS. See Tech advisor for limited availability.
At least 9 hours must be	Gen Ed Div. 2 -		3			Non-M/NS. 300+ level course
numbered 300 or	Gen Ed Any Div CHEM 211	CHM 125 Chemistry I	5			
higher	Gen Ed Any Div PHYS 313	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

Í	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Some of these	CHEM 211 Gen. Chemistry I	CHM 125 Chemistry I	5			
courses may	MATH 242 Calculus I	MTH 125 Calculus I	5			
also be listed in	MATH 243 Calculus II	MTH 150 Calculus II	5			
the general	MATH 344 Calculus III	No Equivalent	3			
education	MATH 321/CS 321 Discrete	No Equivalent	3			
requirements	Structures I					
roquiromonto	MATH 511 Linear Alg.	No Equivalent	3			
	MATH 555 Diff. Equations	No Equivalent	3			
	PHYS 313 Physics for Scientists	No Equivalent	4			
	PHYS 314 & 316 Physics for Scientists II w/ lab	No Equivalent	5			









Engineering Core

,	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Non-EE	AE 223 Statics	No Equivalent	3			
engineering	CS 194 Intro to Digital Design	No Equivalent	4			
requirements	CS 211 Intro to Programming	No Equivalent	4			
•	IME 254 Engr Probability & Stats I	No Equivalent	3			
	IME 255 Engineering Economy	No Equivalent	3			
	ME 398 Thermodynamics I	No Equivalent	3			

Electrical Engineering Courses

WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
EE 282 Circuits I w/lab	No Equivalent	4			
EE 284 Circuits II	No Equivalent	3			
EE 285 L Programming w/ MATLAB for EE/CE	No Equivalent	1			
EE 383 Signals and Systems	No Equivalent	3			
EE 463 Applied Engr. Electromagnetics <i>Fall Only</i>	No Equivalent	3			
EE 492 Electronic Circuits I	No Equivalent	4			
EE 488 Electric Machines & Transformers <i>Spring Only</i>	No Equivalent	4			
EE 684 Intro. Control Systems Concepts Spring Only	No Equivalent	3			
EE 688 Power Electronics <i>Fall only</i> OR EE 493 Electronic Circuits II <i>Spring Only</i>	No Equivalents	4			
EE 586 Intro to Communication Systems Spring Only	No Equivalent	4			
EE 585 Senior Design Project I	No Equivalent	2			
EE 595 Senior Design Project II	No Equivalent	2			
Technical Electives*	No Equivalents	14			

^{*} Select 14 credit hours which must be chosen with advisor's approval from a departmentally approved list. At least 12 of the 14 credit hours must be from the ECE department. Up to 2 credit hours of co-op can be used as non-departmental technical electives.

Engineering+ Program requirements

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

ECE Advising

Daniela Blair, Academic Advisor

316.978.2822

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ECE Department

Wallace Hall, Room 300

316.978.3259

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.
Comostor 1	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		
	Social/Behavioral Science	3		
WSU Tech	ENG 120 Composition II	3	Min C in ENG 101	
Semester 2	MTH 113 College Trigonometry	3	Min C in MTH 112	If student places into Calculus, student does not need to 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	MATH 242 Calculus I	5	MTH 113 w/ C or score	MTH 125 @ Tech if Available
Semester 3	CS 194 Intro to Digital Design	4	MTH 112 w/ C or better	
	CS 211 Intro to Programming	4	MTH 112 w/ C or better	
Courses at	MATH 243 Calculus II	5	MATH 242 w/ C or better	
WSU to Finish	PHYS 313 Physics for Scientist I	4	C: MATH 242	
AA	PHIL 354 Ethics and Computers	3	Jr/Sr Standing	
.	IME 255 Engineering Economy	3	MATH 242 or 251	
	Technical Elective or Engineering+	3		