

WSU Tech to Wichita State: Associate of Arts (AA) to Bachelor of Science (BS) in Computer Engineering, [E17A]

Seneral Education: Wichita State University Policy

,	WSU Course	WSU Tech Course	CR	Grad e	Sem /YR	Notes
Foundation	ENGL 101 College English 1	ENG 101 Composition I	3			
Courses	ENGL 102 College English 2	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 354	No Equivalent	3			300+ level course
	Social/Behavioral Science –		3			
	Math & Natural Science – MATH 242	MTH 125 Calculus I	5			
Additional	Gen Ed Div. 1 – MATH 243	MTH 150 Calculus II	5			See Tech advisor for limited availability.
Courses At least 9 hours	Gen Ed Div. 2 –		3			Non-M/NS. 300+ level course
must be numbered 300	Gen Ed Any Div.– PHYS 313	No Equivalent	4			300+ level course
or higher	Gen Ed Any Div PHYS 314 & 316	No Equivalent	5			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	Grad e	Sem /YR	Notes
These courses	MATH 242 Calculus I	MTH 125 Calculus I	5			
may also be	MATH 243 Calculus II	MTH 150 Calculus II	5			
listed in the	MATH 321/CS 321 Discrete	No Equivalent	3			
general	Structures I					
education	MATH 511 Linear Alg.	No Equivalent	3			
requirements	MATH 555 Differential Equations	No Equivalent	3			
	PHYS 313 Physics for Scientists I	No Equivalent	4			
	PHYS 314/316 Physics for	No Equivalent	5			
	Scientists II w/ lab					







Engineering Core

	WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
Non-CE	EE 282/L Circuits I w/ lab	No Equivalent	4			
engineering	EE 284 Circuits II	No Equivalent	3			
requirements	EE 285 L Programming w/ MATLAB for EECS	No Equivalent	1			
	EE 492 Electronic Circuits I	No Equivalent	4			
	EE 585 Senior Design Project I	No Equivalent	2			
	EE 595 Senior Design Project II	No Equivalent	2			
	IME 254 Engr. Probability & Stats	No Equivalent	3			
	IME 255 Engineering Economy	No Equivalent	3			
	ME 398 Thermodynamics I	No Equivalent	3			
	PHIL 354 Ethics and Computers	No Equivalent	3			Gen Ed.

Computer Engineering Courses

WSU Course	WSU Tech Course	CR	Grade	Sem/YR	Notes
CS 194 Intro to Digital Design	No Equivalent	3			
CS 211 Intro to Programming	No Equivalent	4			
CS 238 Assembly Language Programming	No Equivalent	3			
CS 311 Object-Oriented Programing	No Equivalent	4			
CS 388 FPGA-Based System Design	No Equivalent	4			
CS 400 Data Structures	No Equivalent	3			
CS 394 Intro to Computer Architecture Spring Only	No Equivalent	3			
CS 540 Operating Systems	No Equivalent	3			
CS 594 Microprocessor-Based Sys. Design Fall Only	No Equivalent	4			
CS 664 Computer Networks Spring Only	No Equivalent	3			
Technical Electives*		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

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

See the Undergraduate Catalog for detailed information. Info also available 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 Computer 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 Advisor ECE Advising

Daniela Blair, Academic Advisor Shelby Berry

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Wallace Hall, Room 300

316.978.325



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.
Semester 1	MTH 112 College Algebra	3	Entrance Score	If student places into Trig or Calculus, student does
	SPH 101 Public Speaking	3		not need to start w/ College Algebra. Math sequence should be top priority for Engineering
	Fine Arts	3		students.
	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, does not need Trig.
	Additional Gen Ed – Division 2	3		Non-M/NS, suggested 300+.
	Technical Elective	3+		Suggested CHM 125 or BUS 200
	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	PHYS 313 Physics for Scientist I	4	C: MATH 242	
Finish AA	ECE 282 Circuits I or CS 311 Object-	4	CS 211 w/ C or better	
	Oriented Programing	4		
	PHYS 314 & 316 Physics for Scientists II	5	PHYS 313 & MATH 243	
	w/ Lab	٦	w/ C or better	
	PHIL 354 Ethics and Computers	3	Jr/Sr Standing	