.2025 iic Year	Electrical and Computer Engineering, BS		WESTERN WASHINGTON UNIVERSITY		
2024- Academ	ABET accredited Course offerings subject to change Major credits: 146 (not including GURs) <u>Link to Course Catalog</u>	Admissions info - <u>https://engineeringdesign</u> . Academic advising available - see contact info Pre-major coursework in grey area Courses in BOLD required to apply to full maj	wwu.edu/ prmation below		
	Fall	Winter	Spring		
First Year	MATH 124 (5) Calculus I PHYS 161 (5) Physics w/ Calc I CSCI 140 or 141 (4) Programm. Fundamen.	MATH 125 (5) Calculus II PHYS 162 (5) Physics w/ Calc II † EECE 108 & 109 (2) Intro to EECE * ENGR 101 (3) Engineering, Design, Society	EECE 111 (4) Circuits Analysis I MATH 204 (4) Linear Algebra PHYS 163 (5) Physics w/ Calc III		
Apply to major at end of Year 1 or just before Year 2.					
Second Year	EECE 210 (4) Circuit Analysis II EECE 233 (4) Digital Electronics MATH 224 (5) Multivariable Calculus	EECE 220 (4) Electronics I EECE 244 (4) Embedded Microcontrollers MATH 331 (4) Differential Equations	EECE 310 (4) Continuous Systems EECE 344 (4) Embedded Microcontrollers II EECE/MATH 346 (4) Prob & Stats for EECE		
Third Year	EECE 311 (4) Discrete Systems EECE 320 (4) Electronics II	EECE 360 (4) Communication Systems EECE 444 (4) Embedded Systems Concentration Courses (see back)	EECE 401 (1) Capstone Project Introduction EECE 480 (4) Control Systems		
			ENG 302 (WP) Technical Writing		
ourth Year	EECE 402 (3) Capstone Project II Technical El	EECE 403 (3) Capstone Project III ectives and Additional Higher Level EECE Electi	EECE 404 (3) Capstone Project IV ives (see back)		
Engineering & Design 516 High Street, Bellingham, WA 98229 ENGD@wwu.edu 360.650.3380		NOTES & EXCEPTIONS Students not enrolled in MATH 124 and PHYS 161 fall quarter may not finish in four years. EECE/MATH 346 may be used toward the math minor.			
http://engineeringdesign.wwu.edu		 Students must complete General University Requirements in addition to major courses. * ENGR 101 is optional but highly recommended and meets BCGM GUR requirement. † EECE 108 must be taken at first opportunity on-campus; transfer students are exempt from corequisite course EECE 109. 			



Concentration Courses (12 credits)

Students must take three courses within a single concentration, with one course typically taken in each quarter of the third year. These three courses meet 12 of the required 20 credits of Higher Level EECE Electives, leaving 8 remaining credits of Higher Level EECE Electives for students to choose.

•		<u> </u>	
Concentration	Fall 3rd Year	Winter 3rd Year	Spring 3rd Year
AI and ML	EECE 384 (4) AI and Reinforcement Learning	EECE 383 (4) Machine Learning for Engineers	EECE 385 (4) Cyber-Physical Systems
Electronics	EECE 333 (4) Digital System Design	EECE 321 (4) Electronic Systems	EECE 361 (4) Signal Propagation
Energy	EECE 372 (4) Pwr Circuits & Elecmech. Sys.	EECE 378 (4) Pwr Sys Analysis & Smart Grid	EECE 374 (4) Power Electronics
Wireless & Signals	EECE 362 (4) Wireless Networking	EECE 433 (4) Digital Signal Processing	EECE 460 (4) Digital Communication Sys

Note: The scheduling of concentration courses changes from year to year, so some courses may be offered in different quarters than shown here.

Higher Level EECE Electives (8 additional credits, 20 total)

In addition to the 12 concentration-specific higher level EECE electives above, students must complete 8 additional credits of higher level EECE electives for a total of 20 credits. Courses which may be used to fulfill this requirement include EECE 321, 333, 361, 362, 372, 374, 378, 383, 384, 385, 433, 460.

Technical Electives (15 credits)

Students must also complete 15 credits of tech electives, and 3 of the 15 credits must be from a mathematics or basic science course. Courses in the Higher Level EECE Elective category are also in the Technical Elective category, however a course cannot be double-counted to meet both requirements. Link to complete list of approved technical electives.

Note: Students admitted to EECE prior to 2024 need only complete 10 technical elective credits plus CHEM 161 (5 credits) and do not need to take an additional math or basic science course.

GURs

The QSR, LSCI, SCI, and writing proficiency requirements are satisfied by required EECE program courses. Additional courses must be taken with the ACOM, BCOM/CCOM, HUM, SSC, ACGM, and BCGM attributes, which typically requires 10 additional courses and at least 38 additional credits. For GUR-related advising, students should visit the Academic Advising Center in OM380, or at https://advising.wwu.edu/

Faculty Contact Information					
Associate Professor Xichen Jiang, jiangx2@wwu.edu	Professor Todd Morton, toddm@wwu.edu				
Assistant Professor Junaid Khan, khanj@wwu.edu	Associate Professor Amr Radwan, radwana@wwu.edu				
Professor Andy Klein, kleina5@wwu.edu Assistant Professor Bhaskar Ramasubramanian, ramasub@wwu.edu		vwu.edu			
Associate Professor Ying Lin, liny4@wwu.edu	Assistant Professor Wala Saadeh, saadehw@wwu.edu				
Associate Professor John Lund, lundj9@wwu.edu	Assistant Professor Yuzhang Zang, zangy@wwu.edu	Last updated: Sep 2024			