

Electrical and Computer Engineering, BS



Electronics Concentration

ABET accredited Admissions information - https://engineeringdesign.wwu.edu/

Course offerings subject to change Academic advising available - see contact information below

Major credits: 146 (not including GURs)

Pre-major coursework in grey area.

	Courses in BOLD required to apply to full major.		
	Fall	Winter	Spring
First Year	MATH 124 (5) Calculus I	MATH 125 (5) Calculus II	APPLY TO MAJOR
	PHYS 161 (5) Physics w/ Calc I	PHYS 162 (5) Physics w/ Calc II	EECE 111 Circuits Analysis I
	CSCI 140 or 141 (4) Programm. Fundamen.	EECE 108 & 109 (2) Intro to Elect. & Comp	MATH 204 (4) Linear Algebra
	ENGR 101 (2) Engineering, Design, Society	CHEM 161 (5) General Chemistry I	PHYS 163 (5) Physics w/ Calc III
	ENGR 101 is optional but highly recommend	led	
Second	MAJOR COURSES BEGIN	EECE 220 (4) Electronics I	EECE 310 (4) Continuous Systems
	EECE 210 (4) Circuit Analysis II	EECE 244 (4) Embedded Microcontrollers	EECE 333 (4) Digital System Design*
	EECE 233 (4) Digital Electronics	MATH 331 (4) Differential Equations	MATH 345 (4) Engineering Statistics
	MATH 224 (5) Multivariable Calculus		EECE 397A (4) Wireless Networking/Applic.*
Third Year	EECE 311 (4) Discrete Systems	EECE 321 (4) Electronic Systems*	EECE 361 (4) Signal Propagation*
	EECE 344 (4) Embedded Microcontrollers II	EECE 360 (4) Communication Systems	EECE 433 (4) Digital Signal Processing
	EECE 320 (4) Electronics II	EECE 444 (4) Embedded Systems	EECE 460 (4) Digital Comm. Systems
		EECE 397B (4) Machine Learning *	
Fourth Year	EECE 372 (4) Electromechanical Devices	EECE 492 (4) Project Hardware Design	EECE 493 (4) Project System Implementation
	EECE 480 (4) Control Systems	ENG 302 (WP) Technical Writing	Tech Elective
	EECE 491 (2) Project Proposal	Tech Elective	
Fu nin sanin n 0			

Engineering & Design

516 High Street, Bellingham, WA 98229

ENGD@wwu.edu | 360.650.3380

http://engineeringdesign.wwu.edu

Pre-major Advisor:

Lisa Ochs lisa.ochs@wwu.edu

NOTES & EXCEPTIONS

Pre-majors apply for the major at the end of spring and/or summer quarters

Students not enrolled in MATH 124 and PHYS 161 fall quarter may not finish in four years

Math 341 may be substituted for MATH 345; CSCI 141 may be substituted for CSCI 140

*Must complete three of the five courses: EECE 321, 333, 361, 397A, or 397B

Students must complete General University Requirements in addition to major courses

Electrical and Computer Engineering, BS





Admissions

Students must first be accepted by the university. The program accepts major applications at the end of spring and summer quarters. Accepted students start major coursework fall quarter.

F	Required coursework to apply	Required questionnaire	Admissions statistics
MATH 124	Calculus II	Applications will include a required	The program typically accepts 48 students
MATH 125	Calculus II	questionnaire. The questionnaire will ask	annually; 36 Electronics and 12 Energy
ЛАТН 204	Linear Algebra	about the applicant's goals, demonstrated	students.
HYS 161	Physics w/ Calc I	leadership experiences, collaboration and	
PHYS 162	Physics w/ Calc II	teamwork examples, strategies for	
CSCI 140 or 141	Programming Fundamentals	studying, and ability to overcome adversity.	Typically 50-65
ECE 111	Circuit Analysis I		applicants
ECE 108/109*	Intro to Electrical & Computer Engineering		
* may be waived for transfer student admissions		Applications due	average 3.3-3.7 pre-major GPA
EECE 108 must be taken at next opportunity		Applications are accepted at the end of	
Other courses considered, but not required to apply		every spring quarter and the beginning of	(not a cut-off)
ИАТН 224	Multivariable Calc and Geometry I	fall quarter. Accepted students start major	
ЛАТН 331	Differential Equations	coursework fall quarter. See department	
ИАТН 345	Engineering Statistics	website for specific dates.	48 accepted
PHYS 163	Physics w/ Calc III	Transfer students	
CHEM 161	General Chemistry I	Transfer students are encouraged to	
		contact the pre-major advisor to discuss	
		equivalencies and transfer timing.	

Technical Electives

Majors are required to complete 6 credits of technical electives before graduation. Check the website for approved courses.

Faculty Contact Information

Associate Professor Xichen Jiang, jiangx2@wwu.edu
Assistant Professor Junaid Khan, khanj@wwu.edu

Professor Andy Klein, kleina5@wwu.edu
Associate Professor Ying Lin, liny4@wwu.edu

Associate Professor John Lund, lundj9@wwu.edu

Professor Todd Morton, toddm@wwu.edu

Assistant Professor Amr Radwan, radwana@wwu.edu

Assistant Professor Bhaskar Ramasubramian

udpated: May 2021