

2022-2023
Academic Year

Electrical and Computer Engineering, BS

Wireless Networking and Signal Processing

(students graduating 2024 or later)



ABET accredited
Course offerings subject to change
Major credits: 146 (not including GURs)

Admissions information - <https://engineeringdesign.wvu.edu/>
Academic advising available - see contact information below
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 (4) 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

Second Year	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 320 (4) Electronics II
	EECE 233 (4) Digital Electronics	MATH 331 (4) Differential Equations	MATH 345 (4) Engineering Statistics
	MATH 224 (5) Multivariable Calculus		

Third Year	EECE 311 (4) Discrete Systems	EECE 360 (4) Communication Systems	EECE 401 (1) Capstone Project Intro.
	EECE 344 (4) Embedded Microcontrollers II	EECE 444 (4) Embedded Systems	EECE 480 (4) Control Systems
	EECE 362 (4) Wireless Networking	EECE 433 (4) Digital Signal Processing	EECE 460 (4) Digital Comm. Systems
			ENG 302 (WP) Technical Writing

Fourth Year	EECE 467 (3) Wireless & SP Capstone Proj. I	EECE 468 (3) Wireless & SP Capstone Proj. II	EECE 469 (3) Wireless & SP Capstone Proj. III
	Higher Level EECE or Technical Electives	Higher Level EECE or Technical Electives	Higher Level EECE or Technical Electives

Engineering & Design
516 High Street, Bellingham, WA 98229
ENGD@wwu.edu | 360.650.3380
<http://engineeringdesign.wvu.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
Students must complete General University Requirements in addition to major courses
* ENGR 101 is optional but recommended

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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.

Required coursework to apply		Required questionnaire	Admissions statistics
MATH 124	Calculus II	Applications will include a required questionnaire. The questionnaire will ask about the applicant's goals, demonstrated leadership experiences, collaboration and teamwork examples, strategies for studying, and ability to overcome adversity.	The program typically accepts 48 students annually.
MATH 125	Calculus II		
MATH 204	Linear Algebra		
PHYS 161	Physics w/ Calc I		
PHYS 162	Physics w/ Calc II		
CSCI 140 or 141	Programming Fundamentals		
EECE 111	Circuit Analysis I		
EECE 108/109*	Intro to Electrical & Computer Engineering		
* 109 may be waived for transfer student admissions, but 108 must be taken at first opportunity.			
Other courses considered, but not required to apply		Applications due	
MATH 224	Multivariable Calc and Geometry I	Applications are accepted at the end of every spring quarter and the beginning of fall quarter. Accepted students start major coursework fall quarter. See department website for specific dates.	
		Transfer students	
MATH 331	Differential Equations	Transfer students are encouraged to contact the pre-major advisor to discuss equivalencies and transfer timing.	
MATH 341 or 345	Engineering Statistics		
PHYS 163	Physics w/ Calc III		
CHEM 161	General Chemistry I		

Higher Level EECE Electives and Technical Electives

Students must complete 20 credits of higher level EECE electives; for the wireless/SP concentration this includes EECE 362, 433, 460, and two additional courses. Students must also complete 10 credits of tech electives. See the EECE advising website for a list of Higher Level EECE and approved tech

Faculty Contact Information

Associate Professor Xichen Jiang, jiangx2@wwu.edu
 Assistant Professor Junaid Khan, khanj@wwu.edu
 Professor Andy Klein, kleina5@wwu.edu
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