

ELECTRICAL ENGINEERING

PROMOTING CREATIVE DISCOVERY, ADVANCING MODERN TECHNOLOGY

What can you do as an Electrical Engineer?

Electrical engineers play a key role in shaping technology. They design a wide range of everyday technology from computers and stereos, to complex power distribution systems. You can say an electrical engineer tinkers with a purpose. He or she might design more efficient bullet trains, measure winds on the planet Jupiter, or design ultra capacitors.

Electrical engineering is perfect for individuals with a strong work ethic, natural curiosity, and solid background in math and basic science.

Our graduates go on to successful careers in circuit design, controls, power, electromagnetics, communications and signal processing.

In other words, there is no limit to what you can do with an electrical engineering degree from the University of Idaho.



Undergraduate Program

By the end of your four years at Idaho you will be proficient in the use of modern theory, techniques, and tools used to solve problems in electrical engineering. You will have designed new products and learned how to solve problems that are waiting to be discovered. Teamwork is important to Idaho engineers, but you will also be able to confidently take on individual challenges.

Each electrical engineering graduate is prepared with a broad knowledge in at least three of the following areas of electrical engineering: electronics, power, electromagnetic, digital systems and signals and systems.

University of Idaho
A LEGACY OF LEADING

College of Engineering

Department of Electrical & Computer Engineering

208.885.6554 or 88-88-UIDAHO ext. 6554

info@ece.uidaho.edu

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FRESHMAN - FALL			FRESHMAN - SPRING		
ENGL 102	College Writing and Rhetoric	3	ECE 101	Foundations of Electrical and computer Engineering (Spring Only)	2
MATH 170*	Analytic Geometry & Calculus I	4	CHEM 111*	Principles of Chemistry	4
CS 120*	Computer Science I	4	MATH 175*	Analytic Geometry and Calculus II	4
ELECTIVE	Free Elective	1	PHYS 211*	Engineering Physics I with Lab	4
ISEM 101	Integrated Seminar	3	ELECTIVE	Humanities/Social Science Elect.	3
		Total Credits	15		
				Total Credits	17
SOPHOMORE - FALL			SOPHOMORE- SPRING		
ECE 210/211*	Circuits I with Lab	4	ENGR 220*	Engineering Dynamics	3
MATH 310*	Ordinary Differential Equations	3	MATH 275*	Analytics Geometry & Calculus III	3
PHYS 212	Engineering Physics II with Lab	4	ECE 212/213*	Electrical Circuits II with Lab	4
ENGR 210*	Engineering Statics	3	ECE 240/241*	Digital Logic with Lab	4
ELECTIVE	Humanities (Amst 301 or Phil 103)	3	ECE 292**	Sophomore Seminar (Spring Only)	0
			ECON 201, 202 or 272	Economics Elective	3 or 4
		Total Credits	17		
				Total Credits	17/18
*A grade of C or better is required in these courses before registration is permitted in upper division electrical engineering courses. **A passing grade in ECE 292 is also required.					
JUNIOR - FALL			JUNIOR - SPRING		
ECE 310/311	Fundamentals of Electronics with Lab	4	ECE 340/341	Microcontrollers with Lab	4
ECE 320/321	Energy Systems with Lab	4	ECE 330/331	Electromagnetic Theory with Lab	4
ECE350/351	Signals & Systems with Lab	4	ENGR 360	Engineering Economy	2
MATH 330	Linear Algebra	3	STAT 301	Probability and Statistics	3
			Engineering Science	ENGR 320, 335, 350 or 428	3
		Total Credits	15		
				Total Credits	16
SENIOR - FALL			SENIOR- SPRING		
ECE 480	Electrical Engineering Senior Design I	3	ECE 481	Electrical Engineering/Senior Design II (Capstone Core)	3
ECE 491	Senior Seminar (Fall Only)	0	ELECTIVE	Technical Elective	3
ENGL 317	Technical Writing	3	ELECTIVE	Technical Elective	3
ELECTIVE	Technical Elective	3	ELECTIVE	Technical Elective	3
ELECTIVE	Technical Elective	3	ELECTIVE	Technical Elective	3
ELECTIVE	Upper Division Humanities, Int'l. or Social Science Elective	3	ELECTIVE	Free Elective	1
		Total Credits	15		
				Total Credits	16

- See course catalog for complete degree requirements and additional information.