

Electrical Engineering Undergraduate Curriculum

First Year – Fall Term

Course Number	Course Name	Credits
MATH 0220	Analytic Geometry & Calculus I	4
PHYS 0174	Basic Physics for Sci. & Engineering I	4
CHEM 0960*	General Chemistry for Engineers I	3
ENGR 0011	Intro. To Engineering Analysis	3
ENGCMP 210	Seminar in Composition: Engineering	3
ENGR 0081	Freshman Engineering Seminar I	0

*CHEM 0110 and 0410 are also acceptable.

First Year – Spring Term

Course Number	Course Name	Credits
MATH 0230	Analytic Geometry & Calculus II	4
PHYS 0175	Basic Physics for Sci. & Engineering II	4
CHEM 0970*	General Chemistry for Engineers II	3
ENGR 0012	Intro. To Engineering Computing	3
ENGCMP 412**	Seminar in Composition: Engineering	3
ENGR 0082	Freshman Engineering Seminar II	0

*CHEM 0120 and 0420 are also acceptable.

** This course will satisfy the writing requirement for students.

Sophomore Year – Fall Term

Course Number	Course Name	Credits
ECE 0101	Linear Circuits & Systems + Lab	4
ECE 0201	Digital Circuits & Systems + Lab	4
ECE 0301	ECE Problem Solving with C++	3
ECE 0401	ECE Analytical Methods	3
	Communication Skills Elective	3
ECE 1885	Departmental Seminar	0

Sophomore Year – Spring Term

Course Number	Course Name	Credits
ECE 0102	Microelectronic Circuits + Lab	4
ECE 0202	Embedded Processors & Interfacing + Lab	4
ECE 0302	Data Structures & Algorithms	3
ECE 0402	Signals, Systems & Probability	3
	Humanities/Social Science Elective	3
ECE 1885	Departmental Seminar	0

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Junior Year – Fall Term

Course Number	Course Name	Credits
MATH 240	Analytic Geometry & Calculus III	4
ECE 1212	Electronic Circuit Design Lab	3
ECE 1560	Digital Signal Processing	3
ECE 1701	Fundamentals of Electric Power Engineering	3
	Humanities/Social Science Elective	3
ECE 1885	Departmental Seminar	0

Junior Year – Spring Term

Course Number	Course Name	Credits
ECE 1895	Junior Design Fundamentals	3
ECE 1673	Linear Control Systems	4
ECE 1259	Electromagnetics	3
ECE 1247	Semiconductor Device Theory	3
	Humanities/Social Science Elective	3
ECE 1885	Departmental Seminar	0

Senior Year – Fall Term

Course Number	Course Name	Credits
	ECE Elective	3
	ECE Elective	3
	ECE Elective	3
	Technical Elective	3
	Humanities/Social Science Elective	3
ECE 1885	Departmental Seminar	0

Senior Year – Spring Term

Course Number	Course Name	Credits
ECE 1896	Senior Design Project	3
	ECE Elective	3
	Technical Elective	3
	Technical Elective	3
	Open Elective	3
ECE 1885	Departmental Seminar	0