

Electrical & Computer Engineering Curriculum

Bold = minimum grade requirement higher than D+ (C or C-, depending on course)

FIRST YEAR			
FALL	CR	SPRING	CR
Freshman Engineering Clinic I (ENGR 01.101)	2	Freshman Clinic 2 (ENGR 01.102)	2
Calculus I (MATH 01.130)	4	Calculus II (MATH 01.131)	4
Introductory Mechanics I (PHYS 00.220)	4	Intro Elec. & Mag. (PHYS 00.222)	4
Intro to Digital Systems (ECE 09.241)	3	Computer Sci. & Prog* (CS 04.103)	4
<i>General Education</i>	3	College Composition I (COMP 01.111)	3
<i>*Java-based language if available</i>			
TOTAL	16	TOTAL	17

SECOND YEAR			
FALL	CR	SPRING	CR
Sophomore Clinic 1 (ENGR 01.201)	4	Sophomore Clinic 2 (ENGR 01.202)	4
Calculus III (MATH 01.230)	4	Math for Engrg Analysis (MATH 01.235)	4
Science Elective ¹	4	Data Structures for Engineers (CS04.225)	3
Electrical Circuit Analysis (ECE 09.203)	4	Computer Architecture (ECE 09.243)	3
		Electronics I (ECE 09.311)	3
TOTAL	16	TOTAL	17

THIRD YEAR			
FALL	CR	SPRING	CR
Junior Engineering Clinic (ENGR01.303)	2	Junior Engineering Clinic (ENGR01.303)	2
Signals & Systems (ECE 09.341)	2	Systems & Control I (ECE 09.321)	3
Intro to Embedded Systems (ECE 09.342)	3	Digital Signal Processing (ECE 09.351)	3
Engineering Electromagnetics (ECE 09.303)	3	ECE Modules (ECE 09.363)	1
ME for ECEs (ME 10.320)	3	Technical Elective ²	3
Intro to Microecon, ECON 04.102	3	<i>General Education</i>	3
TOTAL	16	TOTAL	15

FOURTH YEAR			
FALL	CR	SPRING	CR
Senior Engineering Clinic (ENGR 01.403)	2	Senior Engineering Clinic (ENGR 01.403)	2
Engineering Clinic Consultant I (ECE 09.460)	1	Engineering Clinic Consultant II (ECE 09.462)	1
Very Large Scale Integration (ECE 09.414)	3	Seminar: Frontiers (ECE 09.498)	1
Electrical Communication Systems (ECE 09.433)	3	Technical Elective ²	3
Technical Elective ²	3	Technical Elective ²	3
Technical Elective ²	3	<i>General Education</i>	3
		<i>General Education</i>	3
TOTAL	15	TOTAL	16

¹ Suggested courses: College Chem I (Chem06100); Gen Bio: Human Focus (BIOL01.113); Human Anatomy & Phys (BIOL10.210); Modern Physics (PHYS00.300); Intro Thermo, Fluid, Waves & Op (PHYS 00.221).

² Technical Electives are chosen w/ consent of faculty advisor to meet student and program goals. Certain 400-level CS courses may be taken as a Technical Elective, subject to advisor and department chair approval. Technical Electives may include approved multidisciplinary (non-ECE) engineering courses.