



Electrical Engineering Grad Map 2024-25

This is a suggested plan. Meet with an academic advisor to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.

<input checked="" type="checkbox"/>	Course	Cr.	Offered	Prerequisites
Freshman (Semester 1)				
	MATH 1210 — Calculus I	4	F, Sp, Su	
	PHYS 2210 — Phys. for SE I	5	F, Sp	Co: MATH 1210
	ECE 1000 — Intro. to EE	2	F, Sp	
	Gen. Ed. — AI	3	F, Sp, Su	
	LIBS 1704 — Info. Nav.	1	F, Sp, Su	
	Total Semester Credits:	15		
Freshman (Semester 2)				
	MATH 1220 — Calculus II	4	F, Sp, Su	Pre: MATH 1210
	PHYS 2220 — Phys. for SE II	5	F, Sp	Pre: PHYS 2210 Co: MATH 1220
	ECE 1400 — Fund. of Eng. Comp.	4	F, Sp	Pre: MATH 1210 Co: ECE 1000
	ECE 2700 — Digital Circuits	4	F, Sp	Co: ECE 1000
	Total Semester Credits:	17		
Sophomore (Semester 3)				
	MATH 2210 — Calculus III	4	F, Sp, Su	Pre: MATH 1220
	CHEM 1230 — Eng. Chemistry	5	Sp	
	ECE 1270 — Intro. to Elec. Circuits	4	F, Sp	Pre: MATH 1210 Co: MATH 1220, ECE 1000
	ENGL 2010 — Int. Writing	3	F, Sp, Su	
	Total Semester Credits:	16		
Sophomore (Semester 4)				
	ENGR 2240 — Dyn. Sys. Eng.	4	Sp	Pre: MATH 1220, ECE 1270, ECE 1400
	ECE 2260 — Fund. of Elec. Circ.	4	Sp	Pre: MATH 1220, ECE 1270 Co: ENGR 2240, ECE 1400
	ECON 2010 — Prin. of Microecon.	3	F, Sp, Su	
	COMM 2110 — Group Comm.	3	F, Sp, Su	
	Gen. Ed. — CA/CC	3	F, Sp, Su	
	Total Semester Credits:	17		
Junior (Semester 5)				
	ECE 3000 — Eng. Seminar	1	F	Pre: ECE 1270
	ECE 3110 — Microelec. I	4	F	Pre: MATH 1220, ECE 1270
	ECE 3210 — Sig. and Systems	4	F	Pre: ENGR 2240, ECE 2260
	ECE 3610* — Digital Sys.	4	F	Pre: ECE 1400, ECE 2700
	ECE 3890 — Internship	1	F, Sp, Su	
	Total Semester Credits:	14		

Junior (Semester 6)				
ECE 3120 — Microelec. II	4	Sp	Pre: ECE 2260, ECE 3110	
ECE 3310 — Electromag. I	4	Sp	Pre: MATH 2210, PHYS 2220, ECE 1270	
ECE 3430 — Eng. Prob. and Stats.	3	Sp	Pre: MATH 1220, ECE 1400	
ECE 3710 — Embedded Sys.	4	Sp	Pre: ECE 1400, ECE 2700	
ECE 3090 — Project Mgmt.	2	F, Sp	Co: ECE 3110, ECE 3210, ECE 3310, ECE 3610*, ECE 3710	
Total Semester Credits:	17			
Senior (Semester 7)				
ECE 4010 — Sr. Proj. I	2	F, Sp		
ECE 4100* — Control Sys.	4	F	Pre: ECE 3110, ECE 3210	
ECE 5XXX — Sr. Elec. I	3	F, Sp		
ECE 5XXX — Sr. Elec. II	3	F, Sp		
Gen. Ed. — LS/CC	3	F, Sp, Su		
Total Semester Credits:	15			
Senior (Semester 8)				
ECE 4020 — Sr. Proj. II	2	F, Sp		
ECE 5XXX — Sr. Elec. III	3	F, Sp		
ECE 5XXX — Sr. Elec. IV	3	F, Sp		
Gen. Ed. — SS/CC	3	F, Sp, Su		
Gen. Ed. — CA or HU/CC	3	F, Sp, Su		
Total Semester Credits:	14			
Total Bachelor Credits:	125			

* The following alternatives are acceptable:

- ECE 3510 may be taken in lieu of ECE 3610.
- ECE 5210 Digital Signal Processing may be taken in lieu of ECE 4100, though ECE 5210 is typically taught during the spring semester.

Additional notes:

- Admission into ECE 4010 requires four 4-credit ECE 3XXX courses, probability and statistics, and the instructor's consent.
- After completion of the pre-professional program, students are required to apply for admittance to the professional program. A minimum GPA of 2.8 in the Pre-Professional Required Courses is required for application to the Professional Program
- Students in the pre-professional and professional programs may be placed on probation if they withdraw (without justification) or earn a grade lower than C twice in any one ECE course. Students on probation require a department override to register for any ECE course. If a student fails to pass a course (with a grade of C or higher) a third time, he or she will be dismissed from the program.

Gen Ed Breadth Requirements (do not duplicate departments):

<input type="checkbox"/> HU	<input type="checkbox"/> CA	<input type="checkbox"/> HU or CA
<input type="checkbox"/> SS	<input type="checkbox"/> SS	
<input type="checkbox"/> PS	<input type="checkbox"/> LS	<input type="checkbox"/> PS or LS
<input type="checkbox"/> CC (double dip with breadth course)		