

Bachelor of Science in Electrical Engineering

This suggested plan applies to students entering in Academic Year 2018-2019 who are ready for calculus.

Semester 1			Semester 2		
CH1150&1151	Univ. Chemistry I & Lab I	4	PH2100&1100	Univ. Physics I - Mechanics	4
CH1153 ³	Prob. Solv. Chem. I (optional)	1	ENG1102	Engineering Modeling & Design	3
ENG1101	Engineering Analysis	3	MA2160	Calculus with Technology 2	4
MA1160 ¹	Calculus with Technology 1	4	EE1110	Essential Math for EE's	1
UN1015	Composition	3	EE1111	Intro. to Elec. & Comp. Engg.	1
			UN1025	Global Issues	3
Total		14/15	Total		16
Semester 3			Semester 4		
MA2321 ²	Linear Algebra	2	EE2112	Electric Circuits II w/lab	4
MA3521 ²	Differential Equations	2	EE3120 ⁷	Electric Energy Systems <i>or</i> Take EE2190 ⁷	3
EE 2111	Electric Circuits I	3	<i>If Photonics</i>		
PH1200&2200	Univ. Physics II Elec & Magnetism	4	EE2174	Digital Logic w/ Lab	4
CS1111	Intro to Programming in C/C++	3	MA3160	Multi-variable Calculus	4
	Critical/Creative Thinking course ⁶	3		Soc Resp/Ethical Reasoning course ⁶	3
Total		17	Total		18
Semester 5			Semester 6		
EE3131	Electronics	4	EE3901	Design Fundamentals	2
EE3140	Electromagnetics	3	EE3180	Probability – Signal Analysis	3
EE3160	Signals and Systems	3	EE3261	Control Systems	3
	SELECT Approved Elective ^{3a}	3	EE3171	Microcontroller Applications	4
	HASS Comp/Comm. ⁶	3		HASS EC/PSY/SS elective ⁶	3
Total		16	Total		15
Semester 7			Semester 8		
EE4901 ⁴	EE Design Project 1 (part 1)	2	EE4910 ⁴	EE Design Project 2 (part 2)	2
EE3250	Communication Theory	3		EE elective ⁵	3
	EE elective ⁵	3		EE elective ^{5,8}	3
	EE elective ^{5,8}	3		EE elective ⁵	3
	HASS HU/FA elective ⁶	3		HASS elective ⁶	3
	Approved electives ^{3b}	3		Free electives	1
Total		17	Total		15
Total			128 Credits		

Students must add 3 units of co-curricular activities such as Physical Education, Pep Band and/or music lessons. Follow pre-requisites and semester offerings. This is a 'suggested' plan which can vary by individual student; shows best path through the program to avoid conflicts. Students who begin in a pre-calculus course will take ENG1001 and ENG1100 in place of ENG1101 in first year.

- MA1160 may be replaced by MA1161
- MA2320 and MA3520 may replace MA2321 and MA3521
- SELECT Approved Elective(3a): 3 credits from a "SELECT approved list", topics recommended by industry professionals, plus 3 credits from Approved electives(3b) list: CH1153 may apply. Reduce 3b by 2 cr. with enterprise design option.
- Approved Engineering Design courses or Enterprise courses may replace EE4901, & EE4910. See department advisor for details.
- EE Electives: 15 credits of EE courses not listed here and not EE3010, EE3805, EE4000, EE4805, EE4901, EE4910.
- HASS = Humanities, Arts and Social Sciences. Follow university requirements for general education courses.
- If considering the [Photonics concentration](#), postpone EE3120 and take EE2190 in semester 4.
- Up to 6 credits "EE" level 4000+ may be double-counted toward the ECE accelerated master's program. (ex. red)