

Bachelor of Science in Electrical Engineering- Sample Plan

Enterprise Concentration

This plan is suggested for students entering Academic Year 2023-2024 who are ready for calculus.

Semester 1:

Course:	Title:	CR.
MA 1160/61	Calculus I w/Technology	4
ENG 1101	Engineering Analysis & Prob. Solving	3
CH 1150	University Chemistry 1	3
CH 1151	University Chemistry 1 Lab	1
CH 1153	Optional Chem. Recitation (1 cr.)	
UN 1015	Composition (1)	3
Total:		14

Semester 2:

Course:	Title:	CR.
MA 2160	Calculus II w/Technology	4
ENG 1102	Engineering Modeling and Design	3
PH 1100	Physics by Inquiry I	1
PH 2100	University Physics I – Mechanics	3
UN 1025	Global Issues (1)	3
Total:		14

Semester 3:

Course:	Title:	CR.
MA 2321 (2)	Elementary Linear Algebra	2
MA 3521 (2)	Elementary Differential Equations	2
EE 2111	Electric Circuits 1	3
CS 1111	Intro. to Programming in C / C++	3
PH 1200	Physics by Inquiry II	1
PH 2200	University Physics II – Elec. & Magnetism.	3
	CORE Critical/Creative Thinking (1)	3
Total:		17

Semester 4:

Course:	Title:	CR.
MA 3160	Multivariable Calculus w/Technology	4
EE 2112	Circuits 2 w/Lab	4
EE 2174	Digital Logic w/Lab	4
EE 3120 (3)	Electric Energy Systems	3
	<i>or choose an EE Sophomore Elective</i>	
	Free Electives (may be postponed)	1
Total:		16

Semester 5:

Course:	Title:	CR.
EE 3131	Electronics and Lab	4
EE 3160	Signals and Systems	3
EE 3140	Electromagnetics	3
	SELECT Approved Elective (4)	3
ENT 2961	Teaming in Enterprise	2
	Enterprise concentration module elec.	1
ENT 3950(5)	Enterprise Project Work III	1
Total:		17

Semester 6:

Course:	Title:	CR.
EE 3901	Design Fundamentals	2
EE 3180	Intro. Probability & Random Signal Anal.	3
EE 3171	Microcontroller Applications for CPS	4
	EE Technical Elective (6)	3
ENT 2962	Communication Contexts	1
ENT 3960(5)	Enterprise Project Work IV	1
	CORE Critical/Creative Thinking (1)	3
Total:		17

Semester 7:

Course:	Title:	CR.
ENT 4950 (5)	Enterprise Project Work V	2
	EE Technical Elective (6)	3
	EE Technical Elective (6)	3
	EE Technical Elective (6)	3
	HASS Social & Behavioral Science (1)	3
	HASS Communication/Composition (1)	3
Total:		17

Semester 8:

Course:	Title:	CR.
ENT 4960(5)	Enterprise Project Work VI	2
	Enterprise concentration module elec.	1
	Enterprise concentration module elec.	1
	EE Technical Elective (6)	3
	EE Technical Elective (6)	3
	HASS Humanities/Fine Arts (1)	3
	HASS Elective (1)	3
Total:		16

Total credits: 128 + 3 units co-curricular activities

This is a suggested plan which can vary by individual student, and which shows a path through the program that avoids time conflicts. Students are responsible for monitoring degree progress and meeting degree requirements. Refer to the degree audit.

- Follow university General Education CORE and HASS requirements. All students must add 3 units of co-curricular activities.
- May substitute MA2320 for MA2321 and/or MA3520 for MA3521. MA2320 and MA3520 are taken in separate semesters.
- EE 3120 may be postponed to 3rd year to take a sophomore EE Elective course.
- Choose one course from the list of SELECT Approved Electives, courses recommended by industry advisors to broaden knowledge. (Refer to the degree audit)
- Approved Engineering Design project which applies major skills in engineering design. Recommended enterprises include: BMSE, OSHE, WCE, RSE and Aerospace.
- Choose EE courses offered among various areas of specialization (focus areas). Mix and match as the student likes.