

Department of Electrical and Computer Engineering

Curriculum for students entering the Electrical Engineering program in academic year

2024-2025*

Electrical Engineering

Credits = 129

Student Name	GWID
Advisor	Admit Date

FALL
First Semester Credits = 16

Hr	Course	Description	Grd	Date
4	CHEM 1111	Gen.Chem.		
1	ECE 1010	Introduction		
3	MATH 1231	Single Var.I		
1	SEAS 1001	Orientation		
4	UW 1020	U.Writing		
3	H/SS 1			

SPRING
Second Semester Credits = 17

Hr	Course	Description	Grd	Date
1	ECE 1020	Introduction		
3	ECE 1120	C Program.		
3	MATH 1232	Single Var.II		
3	PHIL 2135	Ethics		
4	PHYS 1021	U.Phys.I		
3	H/SS 2			

NOT FOR DEGREE

Hr	Course	Description	Grd	Date

FALL
Third Semester Credits = 18

Hr	Course	Description	Grd	Date
3	APSC 2113	Diff.Eq./L.A.		
3	ECE 1125	Data Struct.		
4	ECE 2110	Circuit Th.		
1	ECE 2120	Seminar		
3	MATH 2233	Multivariable		
4	PHYS 1022	U.Phys.II		

SPRING
Fourth Semester Credits = 17

Hr	Course	Description	Grd	Date
3	APSC 2114	Complx.Var.		
4	ECE 2115	Electronics		
4	ECE 2140	Logic Syst.		
3	ECE 2210	Sign./Syst.		
3	H/SS 3			

FALL
Fifth Semester Credits = 16

Hr	Course	Description	Grd	Date
3	APSC 3115	Probability		
4	ECE 3130	Dig.Electr.		
3	ECE 3220	DSP		
3	ECE 3315	Flds.Wvs. I		
3	ECE 3520	Microproc.		

SPRING
Sixth Semester Credits = 15

Hr	Course	Description	Grd	Date
4	ECE 3125	Analog El.		
4	ECE 3135	Dig.Dsgn.		
3	ECE 3410	Comm.Eng.		
1	ECE 3915W	Capstone I		
3	ECE 4320	Flds.Wvs. II		

FALL
Seventh Semester Credits = 15

Hr	Course	Description	Grd	Date
3	ECE 4710	Controls		
3	ECE 4920W	Capstone II		
3	ECE Elective			
3	ECE Elective			
3	Tech Elect 1			

SPRING
Eighth Semester Credits = 15

Hr	Course	Description	Grd	Date
3	ECE 4610	Conversion		
3	ECE 4925W	Capstone III		
3	H/SS 4			
3	Tech Elect 2			
3	Tech Elect 3			

Cumulative GPA	#NAME?
Technical GPA	#NAME?

* An Electrical Engineering student who entered the program in AY 2024-2025 must follow this curriculum or any Electrical Engineering curriculum following this one after getting approval to change the curriculum.

Department of Electrical and Computer

Engineering 2024-2025*

Electrical Engineering

Credits = 129

Student Name	0	GWID: 0
Advisor	0	Admit Date: 0

Sem. Hrs.	Semester	Year	Sem. GPA	Initials / Date	Action

Electrical Engineering major undergraduate students are required to select a specialized Track from the provided options below. By utilizing technical elective courses or ECE Restricted Elective courses, students can fulfill the necessary coursework for their chosen Track. Three selected courses should be at least 9 credits total.

Track 1: Electronics, Nanotechnology, and Chip Design (taking 3 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 4140, 4145, 4150, 4160, 6221, 4435, 4535.

Track 2: Artificial Intelligence and Robotics (taking ECE 6210 plus 2 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 4730, 6217, 6850, 6882, 4535, BME 4835.

Track 3: Telecommunication and Network Security (taking 3 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 3525, 6160, 6565, 4415, 4425, 6575, 6580.

Track 4: Sustainable Energy and Power Systems (taking ECE 4620 plus 2 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 4662, 6699, MAE 2131.

Track 5: EE General Track: taking 3 of technical elective courses with consultation of advisor to ensure the selected courses align with general track overall academic goals.