Department of Electrical and Computer Engineering

Curriculum for students entering the Computer Engineering program in academic year

2024-2025*

Computer Engineering	Credits = 131

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
3	CSCI 1311	Dic. Struct.		
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		

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 3115	Probability		
4	ECE 2115	Electronics		
4	ECE 2140	Logic Syst.		
3	ECE 2210	Sign./Syst.		
3	H/SS 2			

FALL

Fifth Semester Credits = 16

Hr	Course	Description	Grd	Date
4	ECE 3130	Dig.Electr.		
3	ECE 3220	DSP		
3	ECE 3515	Comp. Org.		
3	ECE 3520	Microproc.		
3	Tech Elect 1			

SPRING

Sixth Semester Credits = 15

Hr	Course	Description	Grd	Date
4	ECE 3135	Dig.Dsgn.		
3	ECE 3525	Emb. Syst.		
3	ECE 3915W	Capstone I		
3	ECE 4415	Comm.Nets.		
1	ECE 4425	Comm. Lab		
3	Tech Elect 2			

FALL

Seventh Semester Credits = 15

Hr	Course	Description	Grd	Date
3	ECE 4140	VLSI Dsgn.		
3	ECE 4535	Comp.Arch.		
3	ECE 4920W	Capstone II		
3	H/SS 3			
3	ECE Elective			

SPRING

Eighth Semester Credits = 15

Hr	Course	Description	Grd	Date
3	ECE 4150	ASIC Dsgn.		
3	ECE 4925W	Capstone III		
3	H/SS 4			
3	ECE Elective			
3	Tech Elect 3			

Cumulative GPA	#NAME?
Technical GPA	#NAME?

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

Department of Electrical and Computer Engineering

2024-2025*

Computer Engineering	Credits = 131

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

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

<u>Computer Engineering</u> major undergraduate students are required to select a specialized Track from the provided options below. By utilizing technical 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 3125, 4145, 4160, 6221, 4435.

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 4710, 4730, 6217, 6850, 6882, BME 4835.

Track 3: Computer Hardware and Systems (taking 3 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 6105, 6125, 6130, 6140, 6150.

Track 4: Cybersecurity (taking ECE 6160 plus 2 of the technical elective courses from the following ECE courses with consultation of advisor): ECE 6130, 6132, 6570, 6565.

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