

B.S. Computer Engineering

Freshman (1st) Year - Fall Semester		2024
MATH-151	Calculus I (Every)	4
ENGL-110	First-Year Composition I (Every)	3
EGNR-101	Intro. to Engineering (Fall)	2
CHEM-115	General Chemistry (Every)	5
CSCI-105	Intro. to Computer Programming (Every)	3
		17

Freshman (1st) Year - Spring Semester		2025
MATH-152	Calculus II (Every)	4
ENGL-111	First-Year Composition II (Every)	3
EGNR-140	Linear Algebra Num. App. for Eng. (Every)	2
EGEE-125	Digital Fundamentals (Spring)	4
CSCI-121	Principles of Programming (Spring)	4
		17

Sophomore (2nd) Year - Fall Semester		2025
MATH-251	Calculus III (Every)	4
PHYS-231	Applied Physics for Eng. and Sci. I (Fall)	4
EGEE-250	Microcontroller Fundamentals (Fall)	4
CSCI-201	Data Structures and Algorithms (Fall)	4
		16

Sophomore (2nd) Year - Spring Semester		2026
PHYS-232	App. Physics for Eng. and Sci. II (Spring)	4
EGEE-210	Circuit Analysis (Every)	4
EGEE-355	Microcontroller Systems (Even Spring)	4
	Communication Elective	3
		15

Junior (3rd) Year - Fall Semester		2026
MATH-308	Probability and Math. Statistics (Fall)	3
EGEE-280	Intro. to Signal Processing (Fall)	4
EGEE-320	Digital Design (Even Fall)	4
	Discrete Math/Concentration/Tech. Elec.	4
		15

Junior (3rd) Year - Spring Semester		2027
MATH-310	Differential Equations (Every)	3
EGNR-346	Prob. and Stats Lab for Eng. (Spring)	1
EGNR-340	Numerical Methods for Eng. (Every)	1
	Discrete Math/Concentration/Tech. Elec.	3
	Humanities Elective	3
	Cultural Diversity Elective	3
		14

Senior (4th) Year - Fall Semester		2027
EGNR-491*	Engineering Design Project I (Fall)	3
EGEE-370	Electronic Devices (Fall)	4
	Concentration/Technical Elective	3
	Social Science Elective	3
	Humanities Elective	3
		16

Senior (4th) Year - Spring Semester		2028
EGNR-495*	Engineering Design Project II (Spring)	3
CSCI-434	Operating Systems Concepts (Even Spring)	3
	Concentration/Technical Elective	3
	Concentration/Technical Elective	3
	Social Science Elective	3
		15

Bolded courses require a grade of C or better for the degree

Minimum Total Credits: 125

General Technical Electives (13 credits minimum)

CSCI	265, 281 or higher
EGEE	310 or higher
EGEM	220, 320
EGME	275 or higher
EGNR	261
EGRS	235, 325, 365, 372, 375, 460
MATH	215 or higher
Any course from concentrations	

Discrete Mathematics Core Electives (3 credits minimum)

EGEE-425	Digital Signal Processing (Odd Spring)	3
CSCI-341	Discrete Str. for Comp. Sci. (Even Fall)	4

Robotics & Automation Concentration

Robotics & Automation Concentration		13
EGRS-381	Robotics Technology Lab (Every)	1
EGRS-385	Robotics Engineering (Spring)	3
EGRS-430	Sys. Int. and Machine Vision (Fall)	4
EGRS-435	Automated Manufacturing Sys. (Spring)	2
EGRS-481	Manufacturing Automation Lab (Every)	1
	Technical Elective	2

***Senior Sequence Options (Discuss with Advisor)**

- Industrial** EGNR-491 & EGNR-495 as shown
- Co-Op** EGNR-250, EGNR-450, EGNR-451, & EGNR-491
- Research** EGNR-260, EGNR-460, & EGNR-461