Computer Engineering

Catalog Year 2025-2026

Note: This is a recommended sequence and shifts are likely to occur due to prerequisite completion and course availability.

Semester One	Semester Two
CHEM 1127Q: General Chemistry I (4 credits) (TOI 6)	PHYS 1501Q: Physics for Engineers I (4 credits)(TOI 6)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
CSE 1010: Intro to Computing for Engineers (3 credits)	CSE 2050: Data Structures & O. O. Design (3 credits)
ENGR 1000: Orientation to Engineering (1 credit)	ENGL 1007: Writing and Composition (4 credits)
ENGR 1195: AI4All (2 credits)	TOI Course (3 credits)
14 credits	**18 credits**

Semester Three	Semester Four
MATH 2110Q: Multivariable Calculus (4 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
PHYS 1502Q: Physics for Engineers II (4 credits)(TOI 6)	ECE 2001: Electrical Circuits (4 credits)
CSE 3100: Systems Programming (3 credits)	CSE 2500: Intro to Discrete Systems (3 credits)
CSE 2301: Prin. & Prac. Of Digital Logic Des. (4 credits)	TOI Course (3 credits)
	TOI Course (3 credits)
15 credits	**16 credits**

Semester Five	Semester Six
ECE 3101: Signals & Systems (3 credits)	ECE 3401: Digital Systems Design (3 credits)
ECE 3201: Electronic Circuit Des. & Analys. (4 credits)	CSE 4300: Operating Systems (3 credits)
CSE 3150: C++ Essen. **or** CSE 3160: Funct. Prog. Fund.(3 credits)	ECE 3411: Microproc. App. Lab (3 credits)
CSE 3666: Intro to Computer Architecture (3 credits)	STAT 3345Q: Probability Models for Engin. (3 credits)
MATH 2210Q: Applied Linear Algebra (3 credits)	TOI Course (3 credits)
16 credits	**15 credits**

Semester Seven	Semester Eight
ECE 4901: ECE Design I (2 credits)	ECE 4902: ECE Design II (3 credits)
ECE 4900W: Communic. Engineer. Solutions (1 credit)	ECE 3421: VLSI Design & Simulation (4 credits)
CSE 4302: Adv. Computer Architecture (3 credits)	Professional Requirement (3 credits)
Professional Requirement (3 credits)	Professional Requirement (3 credits)
Design Laboratory (3 credits)	Free Elective* (1 credit)
TOI Course (3 credits)	
15 credits	**14 credits**

*as needed to reach total degree credits

Total Credits: 126