

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 |
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| 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