

**Computer Engineering**  
Catalog Year 2026-2027

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

<b>Semester One</b>	<b>Semester Two</b>
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)
ENGL 1007: Writing and Composition (4 credits)	TOI Course (3 credits)
ENGR 1000: Orientation to Engineering (1 credit)	TOI Course (3 credits)
<b>16 credits</b>	<b>17 credits</b>

<b>Semester Three</b>	<b>Semester Four</b>
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 2301: Prin. & Prac. of Digital Logic Des. (4 credits)	CSE 3100: Systems Programming (3 credits)
CSE 2500: Intro to Discrete Systems (3 credits)	CSE 3140: Cybersecurity Lab (2 credits)
TOI Course (3 credits)	TOI Course (3 credits)
<b>18 credits</b>	<b>15 credits</b>

<b>Semester Five</b>	<b>Semester Six</b>
ECE 3101: Signals & Systems (3 credits)	ECE 3402: Computer Org. & Design (3 credits)
ECE 3411: Microprocessor App. Lab (3 credits)	ECE 3421: VLSI Design & Simulation (4 credits)
CSE 3300: Computer Network (3 credits)	CSE 4300: Operating Systems (3 credits)
MATH 2210Q: Applied Linear Algebra (3 credits)	STAT 3345Q: Prob. Models for Engr. (3 credits) <b>or</b> MATH 3160: Probability (3 credits)
TOI Course (3 credits)	Free Elective (3 credits)
<b>15 credits</b>	<b>16 credits</b>

<b>Semester Seven</b>	<b>Semester Eight</b>
ECE 4901: ECE Design I (2 credits)	ECE 4902: ECE Design II (3 credits)
ECE 4900W: Comm. Engineering Solutions (1 credit)	Professional Requirement <b>or</b> Concentration Course (3 credits)
Required PR: Choose from ECE 4112 <b>or</b> CSE 3504 <b>or</b> CSE 4820 (3 credits)	Professional Requirement <b>or</b> Concentration Course (3 credits)
Professional Requirement <b>or</b> Concentration Course (3 credits)	Free Elective (3 credits)
CSE 4302: Adv. Computer Architecture (3 credits)	Free Elective* (2+ credits)
Design Laboratory (3 credits)	
<b>15 credits</b>	<b>14+ credits</b>

\*As needed to reach total degree credits

**Total Credits: 126**