

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

**College of Engineering
Common Curriculum Requirements Check List**

Qualifying MPE Score: _____

*22+ needed to register for MATH 1131Q and MATH 1132Q

Competencies:

☐ Language met

If not met:

- Elementary I _____ AND Elementary II _____
- OR Intermediate 1 _____

☐ ENGL 1007 or 1010 or 1011

☐ Writing (W course in major): _____

☐ *Writing (W course): _____

*Can complete second W course in one of the below TOIs

Topic of Inquiry 1: *Creativity: Design, Expression, Innovation*

☐ TOI 1 Course (3 credits): _____

Topic of Inquiry 2: *Cultural Dimensions of Human Experiences*

☐ TOI 2 Course (3 credits): _____

Topic of Inquiry 3: *Diversity, Equity, and Social Justice*

☐ TOI 3 Course (3 credits): _____

Topic of Inquiry 4: *Environmental Literacy*

☐ TOI 4 Course (3 credits): _____

Topic of Inquiry 5: *Individual Values and Social Institutions*

☐ TOI 5 Course (3 credits): _____

Topic of Inquiry 6: *Science & Empirical Inquiry - Laboratory*

☐ TOI 6 Course (4 credits) and Focus Area (9 minimum credits in single TOI) **fulfilled** through completion of CoE lab science requirements

Lab #1: _____, Lab #2: _____, Lab #3: _____

Important Notes:

Approved TOIs & Competencies can be found in University Undergrad Catalog:
<https://catalog.uconn.edu/undergraduate/common-curriculum-appendix/>

Total Subject Areas in TOIs

☐ Need at least 6 different subjects

- Total subject areas completed: _____ out of 6 subjects