

Computer Science & 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
CSE 1010: Intro to Computing for Engineers (3 credits)	CSE 2050: Data Structures & O.O. Design (3 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
CHEM 1127Q: General Chemistry I (4 credits) (TOI 6)	PHYS 1501Q: Physics for Engineers I (4 credits)(TOI 6)
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
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)
MATH 2110Q: Multivariable Calculus (4 credits)	CSE 3500: Algorithms and Complexity (3 credits)
PHYS 1502Q: Physics for Engineers II (4 credits)(TOI 6)	MATH 2410Q: Elem. Differential Equations (3 credits)
	TOI Course (3 credits)
	TOI Course (3 credits)
15 credits	17 credits

Semester Five	Semester Six
CSE 3000: Contemporary Issues in CSE (1 credit)	CSE 3504: Prob. Perf. Analy. Of Comp. Sys. (3 credits)
CSE 3150: C++ Essen. or CSE 3160: Funct. Prog. Fund.(3 credits)	CSE Elective or Concentration Course (3 credits)
CSE 3666: Intro to Computer Architecture (3 credits)	ECE 2001: Electrical Circuits (4 credits)
Probability and Statistics Course (3 credits)	MATH 2210Q: Applied Linear Algebra (3 credits)
TOI Course (3 credits)	Free Elective (3 credits)
TOI Course (3 credits)	
16 credits	16 credits

Semester Seven	Semester Eight
CSE 4939W: CSE Design Project I (3 credits)	CSE 4940: CSE Design Project II (3 credits)
CSE Elective or Concentration Course (3 credits)	CSE Elective or Concentration Course (3 credits)
CSE Elective or Concentration Course (3 credits)	CSE Elective (3 credits)
Free Elective (3 credits)	Free Elective (3 credits)
Free Elective (3 credits)	Free Elective* (3 credits)
15 credits	15 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: _____

Total Subject Areas in TOIs

- Need at least 6 different subjects
 - Total subject areas completed: _____ out of 6 subjects

Important Notes:

Approved TOIs & Competencies can be found in University Undergrad Catalog:

<https://catalog.uconn.edu/undergraduate/common-curriculum-appendix/>