COMPUTER SCIENCE MINOR (B.ENG.) (25 CREDITS)

Offered by: Computer Science (Faculty of Science)
Degree: Bachelor of Engineering
Program credit weight: 25

Program Description

24-26 credits

This program gives students in Engineering an introduction to core computer science concepts. The Minor is open to B.Eng. and B.Sc. (Arch.) students in Engineering who have already taken ECSE 202 Introduction to Software Development., COMP 202 Foundations of Programming., or COMP 208 Computer Programming for Physical Sciences and Engineering .. This program is not open to students in the B.Eng.; Co-op in Software Engineering program. All courses in the Minor must be passed with a grade of C or better. The Minor program may be completed in 24-26 credits, of which no more than 6 credits may overlap with the primary program. Students who are interested in this Minor should consult with the Undergraduate Program CooThis program gives students in Engineering an introduction to core computer science concepts. The Minor is open to B.Eng. and B.Sc. (Arch.) students in Engineering who have already taken ECSE 202 Introduction to Software Development., COMP 202 Foundations of Programming., or COMP 208 Computer Programming for Physical Sciences and Engineering .. This program is not open to students in the B.Eng.; Co-op in Software Engineering program. All courses in the Minor must be passed with a grade of C or better. The Minor program may be completed in 24-26 credits, of which no more than 6 credits may overlap with the primary program. Students who are interested in this Minor should consult with the Undergraduate Program Coordinator in the School of Computer Science for administrative matters, and should consult with both the Minor Adviser in Computer Science and with their department adviser for approval of their course selection. Forms must be submitted and approved before the end of the drop/add period of the student's final term

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3

Complementary Courses (21-23 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science.	3
ECSE 250	Fundamentals of Software Development.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3

3-4 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 273	Introduction to Computer Systems.	3
ECSE 324	Computer Organization.	4

3-4 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 390	Computational Methods in Chemical Engineering.	3
CIVE 320	Numerical Methods.	4
COMP 350	Numerical Computing.	3
ECSE 343	Numerical Methods in Engineering.	3
MATH 317	Numerical Analysis.	3
MECH 309	Numerical Methods in Mechanical Engineering.	3

9 credits from:

Expand allContract all

Course	Title	Credits
COMP 251	Algorithms and Data Structures.	3
MATH 240	Discrete Structures.	3

COMP courses at the 300 level or above except COMP 396 Undergraduate Research Project., COMP 400 Project in Computer Science.

It is strongly recommended that students take COMP 251 Algorithms and Data Structures., as it is a prerequisite of many later computer science courses.