

COMPUTER SCIENCE (MINOR)

This program was approved for students entering the university in the Summer 2025-Spring 2026 catalog year. For more information about catalog year, go to Catalog Year Information (<https://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

Minor in Computer Science

Unit: Speed School of Engineering (<http://engineering.louisville.edu>) (SS)

Department: Computer Science and Engineering (<http://engineering.louisville.edu/computer/>)

Academic Plan Code: CS MINOR

Program Requirements

The minor in Computer Science (CS) program is available to all University of Louisville undergraduate students who are majoring in disciplines other than Computer Science and Engineering who meet the Admission Requirements for the minor. The CS minor requires successful completion of the following 18 credit hours with a GPA of 2.25 or higher.

Code	Title	Hours
Prerequisites		
MATH 180	Elements of Calculus - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/) (or Equivalent) ¹	3

Admission Requirements

Minimum cumulative GPA: 2.25

Minimum grade in MATH 180 (or equivalent): C-

Minimum number of hours completed: Sophomore standing

Code	Title	Hours
CS Core Requirements		
CSE 130	Introduction to C and C++ Programming Languages	3
CSE 302	Data Structures	3
CSE 310	Discrete Structures	3
Choose one course from the following list:		3
CSE 120	Introduction to Programming with Python	
CSE 350	Introduction to Software Engineering	
CS Depth Requirements		6
Choose two courses from the following list: ²		
CSE 419	Introduction to Algorithms	
CSE 420	Design of Operating Systems	
CSE 504	Automata Theory	
CSE 528	Game Design and Programming	
CSE 530	Design of Compilers	
CSE 532	Python and Data Analytics	
CSE 535	Database Systems	
CSE 538	Graph Database and Graph Analytics	
CSE 545	Artificial Intelligence	
CSE 546	Introduction to Machine Learning	
CSE 547	Deep Learning Algorithms and Methods	
CSE 550	Software Engineering	
CSE 564	Introduction to Cryptography	

CSE 565 Software Security

CSE 570 Mobile Device Programming

Minimum Total Hours

18

NOTE: At least 9 semester hours must be successfully completed while enrolled at the University of Louisville.

NOTE: *No more than 6 credit hours of coursework may be counted towards both a student's major and more than one minor. Any hours above those 6 hours of courses may NOT be counted toward more than one minor if it is also required (and counted) for the student's major.*

¹ Fulfills General Education requirement.

² Some courses listed under CS Depth requirements may need further prerequisites to be satisfied.