

COMPUTER SCIENCE MAJOR

Requirements

Along with specific requirements for any major, all students in the Bachelor of Arts and Bachelor of Science degree programs must meet all general education (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education>) and graduation requirements (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education/#text>) under a single catalog.

Requirements for a major in Computer Science are:

Code	Title	Credits
Major Requirements		
CSCI 235	Programming I: Problem Solving	4
CSCI 243	Discrete Mathematics and Functional Programming	4
CSCI 245	Programming II: Object-Oriented Design	4
CSCI 335	Software Development	4
CSCI 345	Data Structures & Algorithms	4
CSCI 351	Introduction to Computer Systems	4
CSCI 494	Social and Ethical Issues in Computing	2
Select 12 additional credits of computer science above 300 ¹		12
Total Credits		38

¹ Excluding CSCI 493 Mentoring Seminar and CSCI 496 Internship.

Code	Title	Credits
Supporting Requirements		
MATH 231	Calculus I	4
MATH 245	Linear Algebra	4
PHYS 231	Introductory Physics I (or another 4-credit mathematics course numbered 232 or above)	4
Recommended:		
MATH 232	Calculus II	
MATH 363	Probability and Statistics I	

Appropriate substitutions for students placed out of CSCI 235 are:

- 4 hours of computer science above 300 (excluding CSCI 496 Internship),
- MATH numbered MATH 232 or above, or
- PHYS 232.

Code	Title	Credits
Students preparing for graduate study should take:		
CSCI 445	Analysis of Algorithms	4
At least one of the following:		
CSCI 365	Programming Language Concepts	
	or CSCI 455 Operating Systems	