

COMPUTER SCIENCE - APPLIED MAJOR (BS, HBS)

This program is available at the following location:

- Ecampus

This major is restricted to postbaccalaureate students.

This major is for postbaccalaureate students who have already completed a bachelor's degree.

Since computer science is relevant in so many diverse disciplines, students can obtain a computer science degree in combination with virtually any other degree. Those who already hold a bachelor's degree—a BA or BS—from an accredited institution can add to their existing skill set and enhance their job prospects by earning a computer science degree online from OSU. The program of study includes the core courses in computer science, and also includes courses at the leading edge of computing technologies, software design, web development, and mobile/cloud computing.

All of the courses in the Computer Science - Applied degree are offered through Ecampus, and most of the courses are also offered on-campus. This degree requires students to be enrolled as online students selecting DSC-Distance Degree Corvallis as their campus.

Major Code: A049

Upon successful completion of the program, students will meet the following learning outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Code	Title	Credits
Required Core		
CS 161	INTRODUCTION TO COMPUTER SCIENCE I	4
CS 162	INTRODUCTION TO COMPUTER SCIENCE II	4
CS 225 or MTH 231	DISCRETE STRUCTURES IN COMPUTER SCIENCE ELEMENTS OF DISCRETE MATHEMATICS	4
CS 261	DATA STRUCTURES	4
CS 271	COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE	4
CS 290	WEB DEVELOPMENT	4
CS 325	ANALYSIS OF ALGORITHMS	4
CS 340	INTRODUCTION TO DATABASES	4
CS 361	SOFTWARE ENGINEERING I	4
CS 362	SOFTWARE ENGINEERING II	4
CS 467	ONLINE CAPSTONE PROJECT	4
Applied Electives		
Select 16 upper-division CS credits		16
Remaining Credits ¹		120
Total Credits		180

¹ Post-baccalaureate students admitted into the program should have already satisfied this requirement (Core Ed and electives)

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Degree plans are subject to change and the following is only an example of how students may complete their degree in four years. Students should consult their advisor to determine the best degree plan for them. Contact details for advisors can be found on the Academic Advising (<https://catalog.oregonstate.edu/advising/>) page.

First Year		
Fall		
CS 161	INTRODUCTION TO COMPUTER SCIENCE I	4
CS 225 or MTH 231	DISCRETE STRUCTURES IN COMPUTER SCIENCE or ELEMENTS OF DISCRETE MATHEMATICS	4
Credits		8
Winter		
CS 162	INTRODUCTION TO COMPUTER SCIENCE II	4
CS 271	COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE	4
Credits		8
Spring		
CS 261	DATA STRUCTURES	4
CS 290	WEB DEVELOPMENT	4
Credits		8
Second Year		
Fall		
CS 325	ANALYSIS OF ALGORITHMS	4
CS 361	SOFTWARE ENGINEERING I	4
Credits		8
Winter		
CS 340	INTRODUCTION TO DATABASES	4
CS 362	SOFTWARE ENGINEERING II	4
Credits		8
Spring		
Applied Elective		4
Applied Elective		4
Credits		8
Third Year		
Fall		
Applied Elective		4
Applied Elective		4
Credits		8
Winter		
CS 467	ONLINE CAPSTONE PROJECT	4
Credits		4
Total Credits		60