

APPLIED COMPUTER SCIENCE OPTION

This option is offered within the following major(s):

- Computer Science - College of Engineering (<http://catalog.oregonstate.edu/college-departments/engineering/school-electrical-engineering-computer-science/computer-science-ba-bs-hba-hbs/>)

Also available at OSU-Cascades and via Ecampus.

The Applied Computer Science option is for students who want to combine the study of computer science with an in-depth examination of a field in which computer science plays an important role. This option requires an approved program of study for each student. Students build their own program of study to include their choice of CS electives plus an Applied CS program. The Computer Science Undergraduate Curriculum Committee reviews these programs of study for approval. Existing OSU minors may be proposed for use both as an Applied CS program and as a minor.

Option Code: 354

Code	Title	Credits
Baccalaureate Core		
HHS 231	*LIFETIME FITNESS FOR HEALTH	2
HHS 241	*LIFETIME FITNESS	1
Biological Science Course		
	Perspective (Physical Science)	4
	Perspective (Second Biology plus Lab or Physical Science)	4
	Perspectives Course (Western Culture)	3-4
	Perspectives Course (Cultural Diversity)	3-4
	Perspectives Course (Literature & Arts)	3-4
	Perspectives Course (Social Processes and Institutions)	3-4
	Synthesis Course (Contemporary Global Issues)	3
	Difference, Power, and Discrimination Course	3
	Unrestricted Electives	4-12
Total BCC courses required		48

Code	Title	Credits
Required Courses		
COMM 111 or COMM 114	*PUBLIC SPEAKING *ARGUMENT AND CRITICAL DISCOURSE	3
CS 160	COMPUTER SCIENCE ORIENTATION	3
CS 161	INTRODUCTION TO COMPUTER SCIENCE I	4
CS 162 or CS 165	INTRODUCTION TO COMPUTER SCIENCE II ACCELERATED INTRODUCTION TO COMPUTER SCIENCE	4
CS 261	DATA STRUCTURES	4
CS 271	COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE	4
CS 290	WEB DEVELOPMENT	4
MTH 231 or CS 225	ELEMENTS OF DISCRETE MATHEMATICS DISCRETE STRUCTURES IN COMPUTER SCIENCE	4
MTH 251	*DIFFERENTIAL CALCULUS	4
MTH 252	INTEGRAL CALCULUS	4
WR 121	*ENGLISH COMPOSITION	3
WR 214 or WR 222	*WRITING IN BUSINESS *ENGLISH COMPOSITION	3
ST 314	INTRODUCTION TO STATISTICS FOR ENGINEERS	3

WR 327	*TECHNICAL WRITING	3
Total Credits		50

Code	Title	Credits
College and Major Requirements		
CS 325	ANALYSIS OF ALGORITHMS	4
CS 340	INTRODUCTION TO DATABASES	4
CS 344	OPERATING SYSTEMS I	4
CS 352	INTRODUCTION TO USABILITY ENGINEERING	4
CS 361	SOFTWARE ENGINEERING I	4
CS 362	SOFTWARE ENGINEERING II	4
CS 372/CE 372	INTRODUCTION TO COMPUTER NETWORKS	4
CS 381	PROGRAMMING LANGUAGE FUNDAMENTALS	4
CS 391	*SOCIAL AND ETHICAL ISSUES IN COMPUTER SCIENCE	3
CS 444	OPERATING SYSTEMS II	4
CS 461	*SENIOR SOFTWARE ENGINEERING PROJECT I	3
CS 462	*SENIOR SOFTWARE ENGINEERING PROJECT II	3
CS 463	SENIOR SOFTWARE ENGINEERING PROJECT	2
Applied Program		
Computer Science Restricted Elective		3-4
Computer Science Restricted Elective		3-4
Select a minimum of 32 credits		32
Total credits required for graduation		180

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

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