B.S. Computer Science

Applied Option: Web and Mobile Software Development

Curriculum Checklist 2017-2018

Student Name:		
OSU ID:	COCC ID:	

Students are required to meet the University Graduation requirements as well as complete course work required for their major to graduate with a Bachelor of Science in Computer Science.

- 180 total college credits (124 max transferred from a community college)
- 60 upper division credits
- 45 out of last 75 credits must be OSU credits

Specific GPA requirements for College of Engineering:

- Students must apply to the College of Engineering for admission to the Computer Science professional program
- To apply, grades of "C" or better and a minimum of 2.90 cumulative GPA must be earned in pre-CS courses (Admission may require a higher GPA if the number of students applying exceeds a program's capacity)

Important Notes:

- It is the student's responsibility to double check that all requirements are met. The advisor can suggest courses and assist the student in constructing a plan of study, but the student in the end is responsible for assuring all requirements for graduation are met.
- MECOP Internship information: https://www.mecopinc.org/
- Professional School information: http://engineering.oregonstate.edu/applying-engineering-professional-program

Students will work with their Academic Advisor and use the Bacc Core approved list for OSU-Cascades to choose courses for the Bacc Core requirements. To find information about Bacc Core or for the approved list, visit:

http://osucascades.edu/advising/baccalaureate-core

Baccalaureate Core:

x	Skills Requirements	COURSE	TERM	GRADE
	Health/Fitness			
	Mathematics	MTH 251 in major		
	Writing I^	WR 121 in major		
	Writing II^	WR 222 or WR 214 in major		
	Speech^	COMM 111 or 114 in major		
х	Perspective Requirements: no more than 2 from 1 department			
	Cultural Diversity			
	Literature & the Arts			
	Social Processes & Institutions - (ECON 201 recommended)			
	Western Culture			
	Physical Science			
	Biological Science			
	Additional Science (Physical or Biological)			
	Difference, Power & Discrimination			
x	Synthesis Requirements: cannot be from the same department			
	Contemporary Global Issues			
	Science, Technology & Society	CS 391 in major		

A student who has completed (or plans on completing) an ASOT-Business or an AAOT has completed all Skills & Perspectives requirements in the Bacc Core. Students still need to complete <u>synthesis courses</u>.

^{**}ALL SUBJECT TO CHANGES and CATALOG YEAR

Computer Science Fundamentals:

x	Course		Title	Pre-requisites	Credits	Term Offered*	Term/Grade
	CS 160^		Computer Science Orientation	Wireless Laptop	3	F	
	CS 161^	or CS 165^	Introduction to Computer Science I	MTH 112	4	W	
	CS 162^	Accelerated	Introduction to Computer Science II	CS 161	4	SP	
	CS 261^		Data Structures	CS 162/CS 165, MTH 231/CS 225	4	F	
	CS 290^		Web Development	CS 162/CS 165	4	W	
	MTH 231 or	CS 225	Discrete Mathematics or Discrete Structures in	MTH 112	4	SP	
	(online)^		Computer Science (online only)				
	MTH 251^		Differential Calculus	MTH 112	4	F	
	MTH 252^		Integral Calculus	MTH 251	4	W	
	WR 121^		English Composition		3	F	
	COMM 111	or COMM 114^	Public Speaking or Argument & Critical		3	W, SP	
			Discourse				
	CS 271^		Computer Architecture & Assembly Language	CS 161/CS 165	4	SP	
	WR 222 or \	WR 214^	English Composition or Writing in Business	WR 121^	3	W	
	ST 314		Introduction to Statistics for Engineers	MTH 252	3	SP	
	WR 327		Technical Writing	WR 121^	3	SP	

Professional Computer Science:

x	Course	Title	Pre-requisites	Credits	Term Offered*	Term/Grade
	CS 344	Operating Systems I	CS 261, CS 271, C programming	4	W	
	CS 325	Analysis of Algorithms	CS 261, MTH 231/CS 225	4	W	
	CS 340	Introduction to Databases	CS 290	4	W	
	CS 361 (WIC)	Software Engineering I	CS 261	4	W	
	CS 362	Software Engineering II	CS 261 (CS 361 recommended, not required)	4	SP	
	CS 372	Introduction to Computer Networks	CS 261, CS 271, C programming, Unix	4	F	
	CS 381	Programming Language Fundamentals	CS 261, MTH 231/CS 225	4	SP	
	CS 391	Social and Ethical Issues in CS	CS 101 or computer literacy	3	SP	
	CS 444	Operating Systems II	CS 344, CS 271	4	SP	
	CS 461	Senior Software Engineering Project	CS 361, Senior Standing	3	F	
	CS 462	Senior Software Engineering Project	CS 362, CS 461, Senior Standing	3	W	
	CS 463	Senior Software Engineering Project	CS 462	2	SP	
	CS 352	Introduction to Usability Engineering	CS 161/CS 165	4	F	
	Restricted Elective	Choose (1) course in applied option		3-4		
	Restricted Elective	Choose (1) course in applied option		3-4		

Applied Option: Web and Mobile Software Development (32 credits):

x Course	Title	Pre-requisites	Credits	Term Offered*	Term/Grade
Required courses	(16 credits)				
BA 260	Introduction to Entrepreneurship	Sophomore standing	4	SP	
CS 466	Web-based Start-up Project	Co-requisite: CS 461	4	F	
CS 496	Mobile & Cloud Software Development	CS 344, knowledge 1 operating system	4	F	
ECE 478	Network Security	CS 372	4	W	
Choose (16 credits	s) from the following:	·			
BA 352 or BA 3	51 Individual & Team Performance or Managing Organizations (online only)	COMM 111, Junior standing	4	W, SP	
BA 360	Introduction to Financial Management	BA 215, ECON 201	4	F, SP	
MGMT 364	Project Management	BA 351/BA 352	4	W	
BA 215	Fundamentals of Accounting		4	SP	
CS 434	Machine Learning and Data Mining	CS 325	4	SP	
CS 447	Wireless Embedded Systems	CS 344	4	W	

NOTES

^=Courses used for pre-CS GPA calculation

See Academic Advisor for $\underline{\text{Restricted Elective}}$ (RE) information:

RE cannot be used to meet both Applied Option & Restricted Elective

* All info is subject to change