



# Department of Computer Science

## Bachelor of Science

### Four-Year Academic Road Map

YEAR 1	Fall Quarter		Winter Quarter		Spring Quarter	
	CS 110	Programming Fundamentals I	CS 111	Programming Fundamentals II	CS 112	Intro to Data Science in Python
	MATH 153*	Precalculus I	MATH 154	Precalculus II	MATH 172	Calculus I
	Academic Writing I	(ex: ENG 101)	K1: Academic Writing II	(ex: ENG 111)	K2: Community, Culture & Citizenship	
	UNIV 101	Transition to CWU				
	Total Quarter Credits	15	Total Quarter Credits	14	Total Quarter Credits	14
YEAR 2	Fall Quarter		Winter Quarter		Spring Quarter	
	CS 301	Data Structures	CS 302	Advanced Data Structures & File Processing	CS 380	Introduction to Software Engineering
	CS 311	Computer Architecture I	CS 312	Computer Architecture II	CS 420	Database Mngmt Systems
	CS 325	Technical Writing in CS	MATH 260	Sets and Logic	MATH 330	Discrete Math
		Total Quarter Credits	12	Total Quarter Credits	13	Total Quarter Credits
YEAR 3	Fall Quarter		Winter Quarter		Spring Quarter	
	CS 361	Principles of Language Design I	CS 362	Principles of Language Design II	K3: Creative Expression	
	CS 427	Algorithm Analysis	CS 392	Practical Experience in Debugging Computer Code	K5: Humanities	
	CS 450	Computer Network and Data Communications	CS 470	Operating Systems	CS Elective	
	5-Credit Elective or Minor Class		CS Elective		4-Credit Elective or Minor Class	
	Total Quarter Credits	17	Total Quarter Credits	13	Total Quarter Credits	18
YEAR 4	Fall Quarter		Winter Quarter		Spring Quarter	
	CS Elective		CS 480	Adv Software Engineering	CS 481	Capstone Project
	K6: Individual & Society		CS Elective		CS 489	Senior Colloquium
	K7: Physical & Natural World		K4: Global Dynamics		CS 492	Lab Experience in Teaching CS
	4-Credit Elective or Minor Class		4-Credit Elective or Minor Class		CS Elective	
	Total Quarter Credits	18	Total Quarter Credits	18	Total Quarter Credits	15
<b>Total Credits</b>						<b>180</b>

\*Assumes placement into Math 153. If placement requirements are not met, your advisor will help you create a suitable first-year Math sequence to set you up for success.

Minors to consider: Mathematics & Physics

<p><b>Department Webpage</b></p> 	<p><b>CWU Degree Requirements</b></p> 	<p><b>CWU Course Catalog</b></p> 
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