

Bachelor of Science, Computer Science Degree Map



WEBER STATE
UNIVERSITY

This is a suggested plan. Meet with an academic advisor to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.

Catalog Year: 2020-2021

Name _____

☒	Course	Credit Hour	Semester Offered	Pre-Requisite	Milestones & Notes
Freshman (Semester 1)					
	CS 1030 Foundations of Computing	4	Fa, Sp, Su		• Declare major with AAS and BS degrees in Computer Science. • Meet with advisor *ETC 2001 is a recommended SS/DV Gen Ed course
	CS 1400 Programming 1	4	Fa, Sp, Su	Co-req CS 1030	
	ENGL 2010 EN Intermediate College Writing	3	Fa, Sp, Su	Engl 1010 or AP 3 or ACT 29	
	MATH 1040 QL Introduction to Statistics	3	Fa, Sp, Su	Math 1010 or ACT 23	
	Social Science/Diversity (SS/DV) Elective*	3	Fa, Sp, Su		
	Total Semester Credits	17			
Freshman (Semester 2)					
	CS 1410 Object-Oriented Programming	4	Fa, Sp, Su	CS 1400 and ENGL 1010 or ENGL 2010	• Overall GPA 2.7 or higher • C or better in all required CS courses • C- or better in all required support courses
	CS 2350 Client Side Web Development	4	Fa, Sp, Su	CS 1400	
	CS 2705 Network Fundamentals and Design	4	Fa, Sp, Su	CS 1030 and CS 1400	
	COMM 2110 HU Interpersonal & Small Group Comm	3	Fa, Sp, Su		
	LIBS 1504 or 1704 Information Literacy (IL) Elective	1	Fa, Sp, Su		
	Total Semester Credits	16			
Freshman (Optional)					
Sophomore (Semester 3)					
	CS 2420 Intro to Data Structures and Algorithms	4	Fa, Sp, Su	CS 1410 Co-Req MATH 1080 or 1050 & 1060	• Overall GPA 2.8 or higher • C or better in all required CS courses • C- or better in all required support courses • Meet with advisor
	CS 2550 Intro to Database Design and SQL	4	Fa, Sp, Su	CS 1030	
	CS 2810 Computer Architecture/Organization	4	Fa, Sp, Su	CS 1410	
	MATH 1210 Calculus I	4	Fa, Sp, Su	MATH 1080 or 1050 & 1060	
	Total Semester Credits	16			
Sophomore (Semester 4)					
	CS 2130 Computational Structures	4	Fa, Sp, Su	CS 1400	• ENGL 2250- Creative Writing • PHIL 1250—Critical Thinking • ENGL 3100—Professional & Technical Writing • PS 3250—Business Communication • CS 2899 Assessment have 3 attempts; 100 multiple choice questions; earn 60% or higher.
	CS 2450 Software Engineering	4	Fa, Sp, Su	CS 1410	
	CS 2899 Associate Degree Assessment	0	Fa, Sp, Su		
	PHYS 2210 PS Physics for Scientists and Engineers I	5	Fa, Sp, Su	Co-req Math 1210	
	Writing Support Course—ENGL 2250 CA or PHIL 1250 HU or ENGL 3100 or PS 3250	3	Fa, Sp, Su		
	Total Semester Credits	16			
Sophomore (Optional)					
					• Complete all AAS Degree Requirements • Apply for Graduation in Computer Science
	Total AAS Degree Credits	65			

	Course	Credit Hours	Semester Offered	Pre-Requisite	Milestones & Notes
Junior (Semester 5)					
	CS 3100 Operating Systems	4	Fa, Sp, Su	CS 2420 and CS 2810	• MATH 1220—Calculus II • MATH 3110—Foundations of Algebra • MATH 3160—Number Theory • Meet with advisor • *CS 1010 is recommended CA Gen Ed Course
	MATH 1220 or 3110 or 3160	4	Fa, Sp, Su	Math 1210	
	Creative Arts (CA) Elective*	3	Fa, Sp, Su		
	Life Science (LS) Elective	4	Fa, Sp, Su		
	Total Semester Credits	15			
Junior (Semester 6)					
	CS 3230 or CS 3280 Advanced Programming Course	4	Fa, Sp, Su	CS 2420	• Overall GPA 2.9 or higher • C or better in all required CS courses • C- or better in all required support courses
	CS 3550 Advanced Database Programming	4	Fa, Sp, Su	CS 2550 and 1410	
	Other Upper Division Elective 1	3	Fa, Sp, Su		
	American Institution (AI) Elective	3	Fa, Sp, Su		
	Total Semester Credits	14			
Junior (Optional)					
	Total Semester Credits				
Senior (Semester 7)					
	CS 3750 Software Engineering II	4	Fa, Sp, Su	CS 2350, CS 2450, CS 2899, CS 3550, CS 3230 or CS 3280 and Writing Support Course	• Overall GPA 3.0 or higher • C or better in all required CS courses • C- or better in all required support courses • Meet with advisor
	CS 4110 Formal Languages & Algorithms for Comp	4	Sp, Su	CS 2420 and CS 2130	
	CS Upper Division Elective I	4	Fa, Sp, Su		
	Humanity (HU) or Creative Art (CA) Elective	3	Fa, Sp, Su		
	Total Semester Credits	15			
Senior (Semester 8)					
	CS Capstone Class—CS 4230 or CS 4450 or CS 4790	4	Fa, Sp	CS 3750	• CS 4230--Java Application Dev • CS 4450—Advanced Software Engineering Methods • CS 4790-- .NET Web Application Development • Complete all BS Requirements • Apply for Graduation in Computer Science
	CS Upper Division Elective II	4	Fa, Sp, Su		
	Other Upper Division Elective II	3	Fa, Sp, Su		
	CS 4899 Bachelor’s Degree Assessment	0	Fa, Sp, Su		
	Social Science (SS) Elective	3	Fa, Sp, S		
	Total Semester Credits	14			
Total 3rd -4th year Credits		58			
	Total Bachelor Degree Credits	123			

Gen Ed Breadth Requirements (do not duplicate departments)

☐ HU	☐ CA	☐ HU or CA
☐ SS	☐ SS	
☐ PS	☐ LS	☐ PS or LS
☐ DV (Double dip with breadth course)		

Avoid Misadvisement! Consult your academic advisor (weber.edu/advisors), the WSU Catalog (weber.edu/catalog), and your CatTracks degree evaluation (log into your eWeber Student Portal).

CS Advisors: weber.edu/cs Student Resources tab
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