

College of Science, Technology, Engineering, and Mathematics

Computer Science BCS

(108 credits)

Why study Computer Science?

What aspect of modern life has not been affected by computing technologies? Personal computers, game machines, routers, laptops, tablets, smart phones, and wearable electronics have changed the landscape of daily life, but older technologies that we take for granted are also now controlled by software. Eastern graduates have career options in public accounting and in industry, government, and not-for-profit organizations, as well as in such applications as auditing, taxation, information systems and management services. Current demand for college graduates in computing is far outstripping the supply, resulting in what are consistently among the highest starting salaries for new college graduates.

Other Degree Options

Minors in 3D Animation, Computer Applications, Computer Information, Systems, Computer Science Programming, & Web Application Development. MS in Computer Science and MS in Interdisciplinary Sciences.

Career Opportunities

Software Engineer, Game Programmer, Web Developer, Database Developer



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<http://www.ewu.edu/cstem>

This is an example of a four year class schedule. Academic Advisors are there to help create individualized plans.

First Year	Q1	Q2	Q3
	BACR (5 cr.)	CSCD 210 (5 cr.)	BACR (5 cr.)
	General Elective (5 cr.)	ENGL 201 (5 cr.)	CSCD 202 (4 cr.)
	ENGL 101 (5 cr.)	MATH 301 (5 cr.)	CSCD 211 (5 cr.)
Second Year	Q5	Q6	Q7
	BACR (5 cr.)	Focus group/Minor/Cluster c	BACR (5 cr.)
	BACR (5 cr.)	General Elective (2 cr.)	CSCD 378 or 379 (4 cr.)
	CSCD 240 (5 cr.)	CSCD 300 (5 cr.)	Focus group/Minor/Cluster c
		CSCD 327 (4 cr.)	
Third Year	Q9	Q10	Q11
	Global (5 cr.)	UL Major Elective 1 (4 cr.)	General Elective (4 cr.)
	CSCD 370/371/372/373 (cho	CSCD 302 (4 cr.)	UL Major Elective 2 (4 cr.)
	Diversity (5 cr.)	CSCD 349 (4 cr.)	UL Major Elective 3 (4 cr.)
		CSCD 350 (4 cr.)	
Fourth Year	Q13	Q14	Q15
	Focus group/Minor/Cluster c	Focus group/Minor/Cluster c	Focus group/Minor/Cluster c
	General Elective (4 cr.)	General Elective (2 cr.)	General Elective (2 cr.)
	UL Major Elective 4 (4 cr.)	UL Major Elective 5 (4 cr.)	General Elective (4 cr.)
	CSCD 330 (4 cr.)	CSCD 488 (5 cr.)	CSCD 490 (5 cr.)

Listed is a Sample Four Year Plan. Individual plans will vary based on placement test scores and class availability.

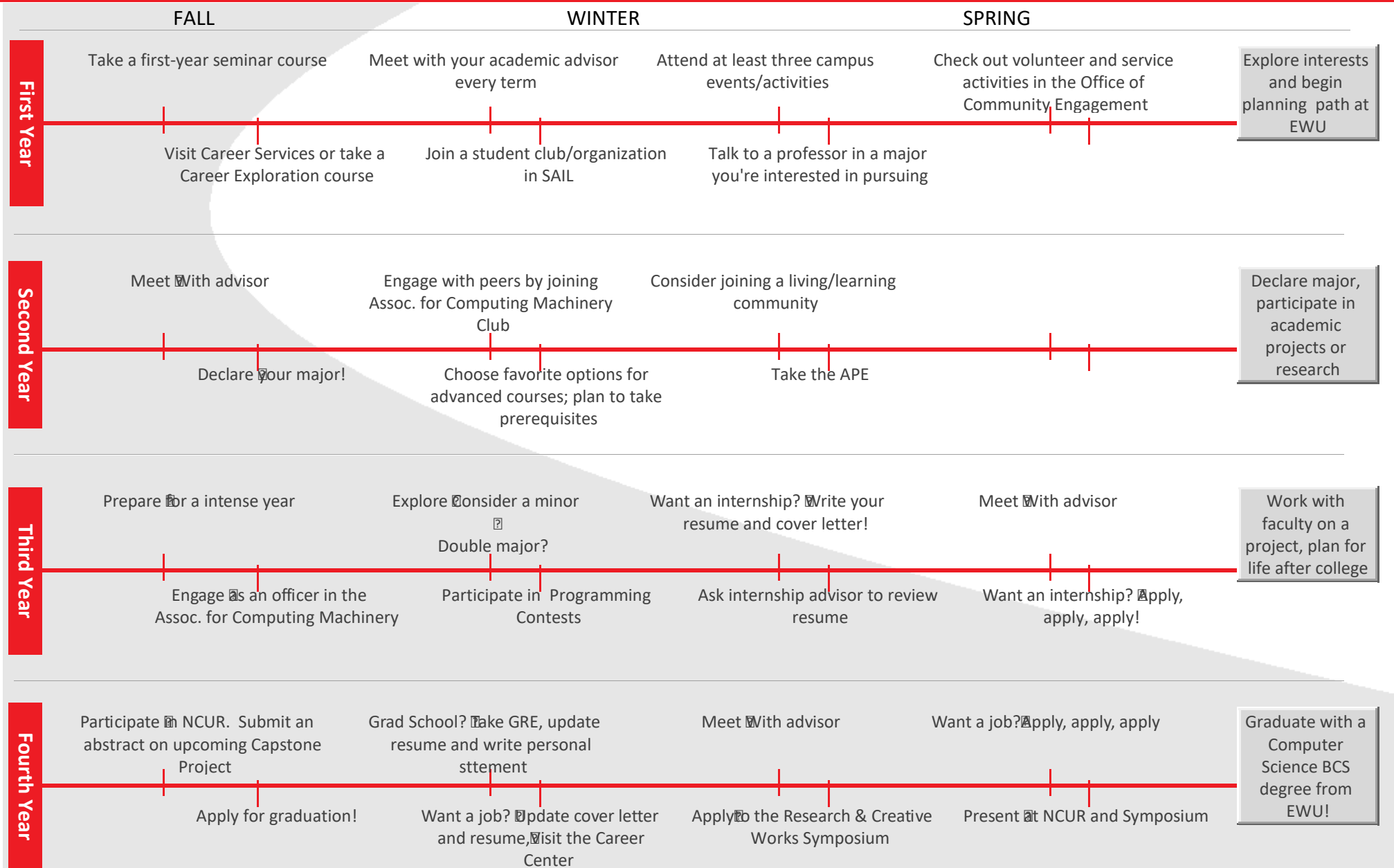


Flight Plan to Success

The following milestones will help you succeed and improve your experience at EWU.

Computer Science, BCS

College of Science, Technology, Engineering, and Mathematics
Computer Science



All recommended activities can occur at any time during a student's time at EWU



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Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics
 SOAR Department: Comp Sci | SOAR Major: CSC BCS
 Major Declaration Form: Computer Science, BCS-COMPSC
 Math proficiency needed: MATH 301

Bachelor of Computer Science in Computer Science
 2018-2019 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
Q1 BACR (5 cr.)		
Q1 General Elective (5 cr.)	(CSCD 110 highly recommended)	
Q1 ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: Writing Placement Test or General Advising.	Satisfies: university competencies, writing.	F17, W18, Sp18, Su18
Q2 CSCD 210 PROGRAMMING PRINCIPLES I (5 cr.) Prerequisites: ≥ 2.0 MATH 141 and previous programming experience HIGHLY RECOMMENDED.		F17, W18, Sp18, Su18
Q2 ENGL 201 COLL COMP: ANALYSIS/RES/DOCMNT (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.	Satisfies: university proficiencies, writing.	F17, W18, Sp18, Su18
Q2 MATH 301 DISCRETE MATHEMATICS (5 cr.) Prerequisite: MATH 142.	Satisfies: completion of this course with a grade $\geq C$ satisfies the university proficiencies in mathematics. Note: for the university proficiencies, the course may be substituted for MATH 107; you may not receive credit for both MATH 225 and MATH 301.	F17, W18, Sp18, Su18
Q3 BACR (5 cr.)		
Q3 CSCD 202 COMPUTING ETHICS (4 cr.) Prerequisite: ENGL 101.	Satisfies: a BACR for humanities and arts. Counts as Arts&Hum BACR	
Q3 CSCD 211 PROGRAMMING PRINCIPLES II (5 cr.) Prerequisites: CSCD 210 with a grade ≥ 2.5 , MATH 142 with a grade ≥ 2.0 .		F17, W18, Sp18, Su18

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

** Future course offerings may differ from the past. Check the course schedule for future courses.

To follow this MAP, you should place into MATH 301. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

Second year courses and prerequisites

Notes

Previously offered **

Q5	BACR (5 cr.)	
Q5	BACR (5 cr.)	
Q5	CSCD 240 C AND UNIX PROGRAMMING (5 cr.) Prerequisites: CSCD 211 with a grade ≥ 2.5 or concurrent enrollment.	F17, W18, Sp18, Su18
Q6	Focus group/Minor/Cluster course 1 (see catalog) (4 cr.)	
Q6	General Elective (2 cr.)	
Q6	CSCD 300 DATA STRUCTURES (5 cr.) Prerequisites: CSCD 211 and MATH 142. A grade $\geq C+$ is required for CSCD prerequisite and a $\geq C$ for each supporting prerequisite.	F17, W18, Sp18, Su18
Q6	CSCD 327 RELATIONAL DATABASE SYSTEMS (4 cr.) Prerequisites: CSCD 211 and MATH 301. A grade $\geq C+$ is required for CSCD prerequisite and a $\geq C$ for each supporting prerequisite.	F17, W18, Sp18, Su18
Q7	BACR (5 cr.)	
Q7	CSCD 378 or 379 (4 cr.)	
Q7	Focus group/Minor/Cluster course 2 (see catalog) (4 cr.)	
Q9	Global (5 cr.)	

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* See the catalog for prerequisites and other details.

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Third year courses and prerequisites	Notes	Previously offered **
Q9 CSCD 370/371/372/373 (choose one) (4 cr.)		
Q9 Diversity (5 cr.)		
Q9 CSCD 320 ALGORITHMS (5 cr.) Prerequisites: CSCD 300 with a grade ≥ 2.5 , MATH 301 with a grade ≥ 2.0 , advancement programming exam clearance.		F17, W18, Sp18, Su18
Q10 UL Major Elective 1 (4 cr.)	(see catalog)	
Q10 CSCD 302 COMPUTING ETHICS (4 cr.) Prerequisite: ENGL 101.		F17, W18, Sp18, Su18
Q10 CSCD 349 DESIGN PATTERNS (4 cr.) Prerequisites: CSCD 300 with a grade ≥ 2.5 , advancement programming exam clearance.		F17, W18, Sp18
Q11 General Elective (4 cr.)		
Q11 UL Major Elective 2 (4 cr.)	(see catalog)	
Q11 UL Major Elective 3 (4 cr.)	(see catalog)	
Q11 CSCD 350 SOFTWARE ENGINEERING (4 cr.) Prerequisites: CSCD 300 with a grade $\geq C+$ and Advancement Programming Exam clearance.		F17, Sp18

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

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Fourth year courses and prerequisites

Notes

Previously offered **

Q13	Focus group/Minor/Cluster course 3 (see catalog) (4 cr.)		
Q13	General Elective (4 cr.)		
Q13	UL Major Elective 4 (4 cr.)	(400- level) (see catalog)	
Q13	CSCD 330 COMPUTER NETWORKS (4 cr.) Prerequisites: CSCD 300 with a grade ≥ 2.5 , advancement programming exam clearance.		F17, W18, Sp18
Q14	Focus group/Minor/Cluster course 4 (see catalog) (4 cr.)		
Q14	General Elective (2 cr.)		
Q14	UL Major Elective 5 (4 cr.)	(400-level) (see catalog)	
Q14	CSCD 488 SENIOR PROJECT (5 cr.) Prerequisites: CSCD 327, CSCD 349 and CSCD 350, and either CSCD 378 or CSCD 379 and Advancement Programming Exam clearance. A grade $\geq C+$ is required for each prerequisite.	Note: students will receive a Y grade until successful completion of CSCD 490.	F17, W18, Su18
Q15	Focus group/Minor/Cluster course 5 (see catalog) (4 cr.)		
Q15	General Elective (2 cr.)		
Q15	General Elective (4 cr.)		
Q15	CSCD 490 SENIOR CAPSTONE (5 cr.) Prerequisites: CSCD 488 prior quarter.	Satisfies: a university graduation requirement'senior capstone. Note: this course is the second course of a two-quarter project sequence and must be taken the quarter following successful completion of the Senior Project course.	F17, W18, Sp18

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

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To follow this MAP, you should place into MATH 301. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.