Requirements effective Fall 2022 for class of 2026+

Department of Mathematics and Computer Science
COMPUTER SCIENCE MAJOR Checklist

Student: _____

Department Requirements:

Course	Taken Quarter/Year	Course	Taken Quarter/Year	Course	Taken Quarter/Year
CSCI 10 & L		MATH 14		MATH 122	(3)
CSCI 60 & L		CSEN 20 & L		CSEN 177 & L	(4)
CSCI 61		ECEN 21 & L		CSCI Emphasis I *	(5)
CSCI 62		MATH 51		CSCI Emphasis II *	(6)
MATH 11		MATH 53		CSCI Emphasis III *	(7)
MATH 12		CSCI 161	(1)	CSCI Emphasis IV *	(8)
MATH 13		CSCI 163	(2)	CSCI Emphasis V *	(9)

* Five 4- or 5-unit upper-division courses in one of the following emphases.

Algorithms and Complexity Emphasis: CSCI 162, CSCI 164
Two more courses from CSCI 146, 147, 165, 181, MATH 101, 175, 176, 177, 178
One more course from the list above or any other additional 4-5 unit upper-division CSCI course below 190 or CSEN/COEN course below 188

Data Science Emphasis: CSCI 183, 184, 185
Two more courses from CSCI 127, 146, 147, 164, 166, MATH 123, CSEN/COEN 166, or any other additional 4-5 unit upper-division CSCI course below 190 or CSEN/COEN course below 188

Security Emphasis: MATH 178, CSCI 180, CSCI 181
Two more courses from MATH 175, CSEN/COEN 152 and 152L, CSEN/COEN 161 and 161L, CSEN/COEN 146 and 146L, or any other additional 4-5 unit upper-division CSCI course below 190 or CSEN/COEN course below 188

Software Emphasis: CSCI 169, CSCI 187, CSEN/COEN 146 and 146L
One more course from CSCI 183, 180, 168, or any other additional 4-5 unit upper-division CSCI course below 190
One other course from CSCI 183, 180, 168, CSEN/COEN 161, 178 or any other additional 4-5 unit upper-division CSCI course below 190 or CSEN/COEN course below 188

Open emphasis of the student's choosing. In order to pursue this emphasis the student must get their courses approved along with their advisor's signature at least three quarters before they graduate. Three of the five upper division courses must be CSCI or MATH. See the Bulletin for some examples.
It is highly recommended that students (especially in the Software Emphasis) take additional upper-division courses beyond the minimum required for the degree, e.g. CSEN 178 (Databases).

College and University Requirements:

Course	Taken Quarter/Year	Course	Taken Quarter/Year	Course	Taken Quarter/Year
CTW 1		Natural Science ***		Culture&Ideas III	(12?)
CTW 2		Rel Theol Culture I		Civic Engag.	
Adv Wrtg	(11?)	Rel Theol Culture II		Elective	(11?)
Ethics		Rel Theol Culture III	(10)	Elective	(12?)
Diversity		Social Science		Elective	
Arts		Culture&Ideas I		Elective	
Language I		Culture&Ideas II		Elective	
Language II				(Elective)	

*** One of ANTH 1, PHYS 31, CHEM 11 and 11T, or ENVS 21.

EXPERIENTIAL LEARNING COURSE: _____

PATHWAY NAME: _____

Pathway Courses: 1_____ 2 _____ 3 _____ 4 _____

NOTE: A student must take at least 12 Upper Division courses as noted below. These courses are noted in places marked by (1), (2), ... (12).

Class Status Summary:

Freshman	44 units (11 courses)
Sophomore	88 units
Junior	131 units
Senior	175 units

Graduation Requirements:

1) 175 units
2) 60 Upper Division units (at least 12-15 courses)
3) 2.0 GPA overall
4) 2.0 GPA in major/minor
5) Residency

Check University Bulletin for complete information.