

Suggested Course Sequence – B. S. in Computer Science - AY 20-21

This is a sample sequence of courses and should only be used as a guide for establishing your schedule.

Fall	Freshman	Spring
CS 114 (Fund. of Computing I) 4		CS 115 (Fund. of Computing II) 4
M 144 (Calculus I) 4		WRT 110W (Academic Writing I) 3
UISA (Artistic and Creative Expression) ⁸ 3		Humanities Elective ^{1,4,5} 3
FYS 100P (First Year Seminar) 3		Social Science Elective ^{2,4} 3
US 190 (FY Success Seminar) 1		UISC (Cultural and Historical Interpretation) ⁸ 3
Total Credits 15		Total Credits 16

Fall	Sophomore	Spring
CS 211 (Arch. & Assembly Lang.) 4		CS 320 (Programming Languages) 3
CS 220P (Data Structures) 3		CS Elective ⁷ 3
M 221W (Discrete Math I) 4		UISS (Social Context and Change) ⁸ 3
WRT 210W (Foundations of Argument) 3		Humanities Elective ^{1,4,5} 3
		Humanities or Arts Elective ^{1,3,4,5} 3
		CRD 200 (Career Preparation) 1
Total Credits 14		Total Credits 16

Fall	Junior	Spring
CS Elective ⁷ 3		CS Elective ⁷ 3
Lab Science Elective ⁶ 4		Lab Science Elective ⁶ 4
UIST (Natural, Scientific, and Technological Exploration) ⁸ 3		Social Science Elective ^{2,4} 3
LBC Elective (Learning Beyond the Classroom) ⁹ 0-3		General Elective 3
General Elective 3		General Elective 3
Total Credits 13-16		Total Credits 16

Fall	Senior	Spring
CS Elective ⁷ 3		CS 460W (Software Development) 3
CS Elective ⁷ 3		CS Elective ⁷ 3
General Elective 3		General Elective 3
General Elective 3		General Elective 3
General Elective 3		General Elective 0-3
Total Credits 15		Total Credits 12-15

Notes:

- ¹ Humanities electives from 3 different disciplines: literature (ENG, but not writing classes), foreign language (ARA, FR, GER, HBR, ITA, SPA), history (HIS), and philosophy (PHI).
 - ² Social science electives from 2 different disciplines: economics (EC), politics (POL), psychology (PSY), and sociology (SOC).
 - ³ Arts elective from: art history (ART), music history (HLM), cinema (CIN), or drama (DRA).
 - ⁴ One Diversity and one Community/Citizenship from Humanities, Social Science, and Arts electives.
 - ⁵ Students who are pursuing a double major may use a UIS course to fulfill one requirement among the arts and humanities category.
 - ⁶ Lab Science electives from BIO110-111 or CH110-111 or CH114-136 or PHY112-113 or PHY120-121.
 - ⁷ At least one course from each of three breadth areas for a total of 18 credits: (1) Systems: CS 353, CS355, CS451, CS455, ECE 231/232; (2) Applications: CS275, CS351, CS365, CS368, CS371, CS375; (3) Theory: CS340, CS342, M220, M222W. CS 330, 331, and CS 290, 291, 390, 391, 490, 491 will be assigned to one of the three breadth areas based on course content and as approved by the Department Chair.
 - ⁸ One Diversity designated course from UIS (University Interdisciplinary Studies) electives.
 - ⁹ LBC elective is internship, practicum, student teaching placement, preceptorship, honors thesis, independent research, study abroad, teaching assistantship, service learning/civic or community engagement.
- Minimum overall average in major: 2.25. All courses in the major must be for letter grade (no P/NP).
 - A&S requires a minimum of 120 credit hours for graduation.