

Suggested Course Sequence – B. A. 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.

		Freshman		
	Fall		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
<i>Total Credits</i>		15	<i>Total Credits</i>	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
			Arts Elective ^{3,4,5}	3
			CRD 200 (Career Preparation)	1
<i>Total Credits</i>		14	<i>Total Credits</i>	16
	Fall	Junior	Spring	
CS Elective ⁷	3		CS Elective ⁷	3
Lab Science Elective ⁶	4		Lab Science Elective ⁶	3
Humanities Elective ^{1,4,5}	3		Social Science Elective ^{2,4}	4
UIST (Natural, Scientific, and Technological Exploration) ⁸	3		General Elective	3
LBC Elective (Learning Beyond the Classroom) ⁹	0-3		General Elective	3
<i>Total Credits</i>		13-16	<i>Total Credits</i>	16
	Fall	Senior	Spring	
CS Elective ⁷	3		CS 460W (Software Development)	3
General Elective	3		CS Elective ⁷	3
General Elective	3		General Elective	3
General Elective	3		General Elective	3
General Elective	3		General Elective	0-3
<i>Total Credits</i>		15	<i>Total Credits</i>	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 biology (BIO), chemistry (CH), physics (PHY), or science(SCI). One laboratory course may be a 4-credit, college-approved UIST course.
 - ⁷ At least one course from two distinct breadth areas for a total of 15 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.