

## Suggested Course Sequence – B. S. in Computer Science - AY 23-24

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) <sup>8</sup>	3		Humanities Elective <sup>1,4,5</sup>	3
FYS 100P (First Year Seminar)	3		Social Science Elective <sup>2,4</sup>	3
US 190 (FY Success Seminar)	1		UISC (Cultural and Historical Interpretation) <sup>8</sup>	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 <sup>7</sup>	3
M 221W (Discrete Math I)	4		UISS (Social Context and Change) <sup>8</sup>	3
WRT 210W (Foundations of Argument)	3		Humanities Elective <sup>1,4,5</sup>	3
			Humanities or Arts Elective <sup>1,3,4,5</sup>	3
			CRD 200 (Career Preparation)	1
<i>Total Credits</i>	14		<i>Total Credits</i>	16
Fall		Junior	Spring	
CS Elective <sup>7</sup>	3		CS Elective <sup>7</sup>	3
Lab Science Elective <sup>6</sup>	4		Lab Science Elective <sup>6</sup>	4
UIST (Natural, Scientific, and Tech. Expl.) <sup>8</sup>	3		Social Science Elective <sup>2,4</sup>	3
LBC Elective (Learning Beyond the Classroom) <sup>9</sup>	0-3		General Elective	3
General Elective	3		General Elective	3
<i>Total Credits</i>	13-16		<i>Total Credits</i>	16
Fall		Senior	Spring	
CS Elective <sup>7</sup>	3		CS 460W (Software Development)	3
CS Elective <sup>7</sup>	3		CS Elective <sup>7</sup>	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:

- <sup>1</sup> 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).
  - <sup>2</sup> Social science electives from 2 different disciplines: economics (EC), politics (POL), psychology (PSY), and sociology (SOC).
  - <sup>3</sup> Arts elective from: art history (ART), music history (HLM), cinema (CIN), or drama (DRA).
  - <sup>4</sup> One Diversity and one Community/Citizenship from Humanities, Social Science, and Arts electives.
  - <sup>5</sup> Students who are pursuing a double major may use a UIS course to fulfill one requirement among the arts and humanities category.
  - <sup>6</sup> Lab Science electives from BIO110-111 or CH110-111P or PHY112-113 or PHY120-121.
  - <sup>7</sup> 18 credits from the courses listed below, including at least 12 credits of CS courses at the 300 level or above, with at least one course taken in each of the three breadth areas: (1) Systems: CS 353, CS355, CS451, CS455, ECE 231/232; (2) Applications: CS275, CS 280, CS351, CS365, CS368, CS371, CS375, CS 380, HCID 220P, HCID 230, HCID 370; (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.
  - <sup>8</sup> One Diversity designated course from UIS (University Interdisciplinary Studies) electives.
  - <sup>9</sup> 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.