B.S. in COMPUTER SCIENCE (General Curriculum)

Suggested 4-Year Academic Flowchart

Updated 7/14/2022 FRESHMAN SOPHOMORE JUNIOR SENIOR Winter Winter Proi-Based Object Design & Analysis of Intro to Database Introduction to Fundamentals of Oriented Discrete Structures CSC 430 (4) CSC/CPE 453 (4) Data Structures Computina Computer Science Programming & Design CSC 349 (4) CSC 365 (4) CSC 248 (4) CSC/CPE 101 (4) CSC/CPE 202 (4) CSC/CPE 203 (4) CPE/CSC 123 (4) /CSC 102 & 103 or 202 Choose One Series: SC/CPE 202 & 203 w/r Theory of E/CSC 202 & 203 & MAT 348, or MATH 248 Senior Proiect Lab I & II CSC 445 (4) CSC 491 (2) CSC 492 (2) CHOOSE ONE CSC 225 (4) CSC 300 (4) PHIL 323 (4) (CSC 248 or 348) CSC 307 or 309; Instr (CSC 491; Instr Research Senior Project I & II General Curriculum General Curriculum Life Science Support Additional Science Choose one: CSC/CPE 357 (4) MATH/STAT Suppor Support Elective CSC 497 (2) **CPE 498 (2)** CSC 321(4) Technical Elective Flective CSC 323 (4) $(4)^{^{1,9}}$ (4)^2,9 (4)⁴ (4)³ CSC 325 (4) CSC 307 or 309: Instr (CSC 497: Instr [Area B Elective Choose one: Choose One Series: General Curriculum Choose One Series: Calculus I Calculus II Calculus III Linear Math Intro Software End neering & Elective MATH 206 (4) General Curriculum Technical Elective General Curriculum MATH 141 (4) MATH 142 (4) MATH 143 (4) CSC 307 (4) Technical Elective CSC 364 (4) Technical Elective (4)⁴ (4)^4 * ATH 141 w/min (MATH 142 w/min C Instr. Consent) (CSC 248 or 348; CPE/CSC (4)^4 * MATH 244 (4) Statistical Methods for [B4] [B4] [Area B Flective] ntro Comp Networks & Distributed System. Engineers Software Engineering I & II General Curriculum STAT 312 (4) Technical Elective Physical Science Support Electives (12 units)^ General Curriculur General Curriculum CPE 464 (4) CPE 469 (4)8 COMS 101/102 (4)** PHYS 141 (4) PHYS 143 (4) PHYS 142 (4) CSC 308 (4) CPE 309 (4)6 (CSC/CPE 357) [B1 & B3] [Upper-Division B] (4)^4 Choose one: ENGL 133/134 (4)** CHEM 124 (4)* CHEM 126 (4) CHEM 125 (4) ES/WGOS 350 or 351 (4) GE (4) GE (4) GE (4) GE (4) COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGQS 145 (4)** PHIL 230 OR PHIL 231 (4) [C2] Can be taken anytime between Winter of Freshman and Winter of Sophomore Yea GE (4) GE (4) GE (4) (Students can attempt to fulfill the requirement after 90 earned units; students shoul complete the requirement before senior year) 16 16 12 16 16 14 14 TOTAL Notes: Legend: MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET Course Title * Refer to current catalog for prerequisites. Course # (Units) Major (92)

** One course from each of the following GE areas must be completed: A1, A2, A3, C1, Lower-Division C Elective, Upper-Division C, D1, Area D Elective, Lower-Division E, and F. Upper-Division C should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

- *** Refer to current catalog for course selection
- ^ Cannot double count units.
- † Course can be taken previously or concurrently.
- ¹ Select 4 units from the following "Life Science" Support Electives: BIO 111, 161, 213 & BMED 213; BOT 121; MCRO 221.
- ² Select 4 units from the following "Additional Science" Support Electives: BIO 111, 161; BOT 121; CHEM 124; MCRO 221; PHYS 141.
- 3 Select 4 units from the following "MATH/STAT Support Electives": MATH 241, 248, 306, 334, 335, 437, 470; STAT 323, 324, 330, 331, 334, 416, 418, 419, 434.
- ⁴ Select 20 units from the Technical Electives Guidelines in the online catalog.
- ⁵ Although new students are strongly encouraged to take CSC/CPE 123, an additional 4 units of CPE/CSC Technical Electives within your selected concentration or, if not selected, the General Curriculum may substitute for CSC/CPE 123.
- ⁶ CSC 309 counts as a Technical Elective. Students in the Artificial Intelligence and Machine Learning concentration or the Privacy and Security concentration are advised to take CSC 307 instead of CSC 308 and CSC 309.
- Students in the Privacy and Security Concentration must take CSC 321.
- 8 CPE 469 counts as a Technical Elective for the General Curriculum, and the following concentrations: Graphics, Privacy and Security, and Data Engineering.
- 9 No double-counting is allowed between Additional Science Support Elective and Life Science Support Elective or Physical Science Support Elective.
- 10 If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.