CSCI Flow

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Senior Fall	Senior Spring

Flowchart courses by column:

Freshman Fall
- CSCI 111 [1] — Programming 1
- MATH 120 — Calculus I (B4)
- ENGL/JOUR 130W — Writing A2
- POLS 155 — Government

Freshman Spring
- MATH 217 [7] — Discrete Math (A3)
- CSCI 211 [2] — Programming 2
- MATH 121 — Calculus II
- General Education A1

Sophomore Fall
- EECE 237 — Embedded Systems
- CSCI 311 [2] [3] — Algorithms
- CINS 370 [3] — Databases
- PHYS/CHEM Selection I [4] (B1)
- General Education D

Sophomore Spring
- CSCI 340 [3] — Operating Systems
- CSCI 411 — Adv Algorithms
- PHYS/CHEM Selection II [4]
- General Education E
- General Education F

Junior Fall
- Junior Standing
- CSCI 301W [3] — Impact on Society (UD-C)
- General Education B2
- General Education C1

Junior Spring
- EECE/CSCI 446 — Networks [3]
- CSCI/CINS/MATH Elective [5] [3]
- CSCI 580 — Artificial Intelligence
- MATH 314 — Statistics
- General Education C2

Senior Fall
- CINS 448 — Security
- CSCI/CINS/MATH Elective [5] [3]
- CSCI 430 — Software Engineering
- CSCI 551 — Parallel & Numeric (UD-B)
- HIST 130 — US History

Senior Spring
- CSCI/CINS/MATH Elective [5]
- CSCI/CINS/MATH Elective [5] [3]
- CSCI 490 — Capstone
- CSCI 515 — Compilers
- Upper Division Pathway [6] UD-D Social Sci

Additional flowchart course:
- CINS 465 — Web (Sophomore Spring)

[1] CSCI 111 requires calculus readiness (MATH 119, high school equivalent, community college equivalent, or a proctored test score >= 76 on the ALEKS PPL assessment).

[2] We recommend taking CSCI 111, CSCI 211, and CSCI 311 in consecutive semesters.

[3] You must complete CSCI 111, CSCI 211, MATH 120, and MATH 217 with a C or better before you can take any upper division CSCI and CINS course (courses with numbers >= 300).

[4] Choose any two from: PHYS 204A, PHYS 204B, CHEM 107, CHEM 108, CHEM 111, CHEM 112. NOTE: cannot take both CHEM 107 and CHEM 111.

[5] 11 units selected from: upper-division CSCI/CINS courses, EECE 555, and/or upper-division MATH courses that meet a requirement for the Minor in Mathematics.
   A maximum of 3 units maybe taken for credit/no credit grading. Consider CSCI 300, CSCI 389, or CSCI 400 if you need one or two units. Verify each elective's prerequisite courses.

[6] This class (or an upper division minor class if you have a minor) must be a writing intensive class (W) to meet the upper division Graduation Writing Assessment Requirement (GWAR).

[7] May be taken concurrently with CSCI 111. Prerequisite is MATH 119 (or equivalent).

GE NOTE: Your GE classes must include 1 Global Culture (GC), 1 United States Diversity (USD), 2 Writing Intensive (W) (1 lower division, 1 upper division) plus ENGL/JOUR 130W and CSCI 301W.

———————▶ Arrows represent prerequisite classes. Must take the class on the left before you take the class on the right. All CSCI and CINS prerequisite must be completed with a C or higher.

- - - - - -▶ Dashed arrows represent potential prerequisite classes.

☐ Small boxes represent a course required for the major that also meets a General Education (GE) requirement (the requirement is listed in the box).

Revised 21JUN2021