

## Suggested Sequence for Computer Science Majors (Effective Fall 2019)

All courses are 1 Unit (4 credit hours) unless otherwise noted. A full-time student typically takes 4 units, or up to a maximum of 4.5 units, in a semester.

- Green indicates Computer Science courses;
- Blue indicates Math or Science correlate courses;
- Orange indicates liberal learning courses, including the world language requirement.
- Black indicates free elective courses.

<b>Students Intending to apply for Jobs in the Industry</b>	<b>Students Intending to apply to Graduate Schools</b>
<b>Year 1 (8 units)</b>	<b>Year 1 (8 units)</b>
CSC 099: Orientation to CS (0 unit; Fall) CSC 220: Computational Problem Solving (Fall) CSC 230: Data Structures (Spring) CSC 270: Discrete Structures (Spring) MAT 127: Calculus A MAT 128: Calculus B ( <i>if selected option</i> ) <u>or</u> Science First Year Seminar (Fall) World Language 1 and 2	CSC 099: Orientation to CS (0 unit; Fall) CSC 220: Computational Problem Solving (Fall) CSC 230: Data Structures (Spring) CSC 270: Discrete Structures (Spring) MAT 127: Calculus A MAT 128: Calculus B ( <i>if selected option</i> ) <u>or</u> Science First Year Seminar (Fall) World Language 1 and 2
<b>Year 2 (8.25 units)</b>	<b>Year 2 (8.25 units)</b>
CSC 199: Prof. Dev. Seminar (0.25 unit; Fall) CSC 325: Computer Architecture (Fall or Spring) CSC 335: Analysis of Algorithms (Fall or Spring) CS Option 1 <u>or</u> CSC 345: Operating Systems CSC 360 (Fall) <u>or</u> CSC 315 (Spring) Science MAT 205: Linear Algebra ( <i>suggested</i> ) World Language 3 Free Elective	CSC 199: Prof. Dev. Seminar (0.25 unit; Fall) CSC 325: Computer Architecture (Fall or Spring) CSC 335: Analysis of Algorithms (Fall or Spring) CS Option 1 <u>or</u> CSC 345: Operating Systems CSC 360 (Fall) <u>or</u> CSC 315 (Spring) Science MAT 205: Linear Algebra ( <i>suggested</i> ) World Language 3 Free Elective
<b>Year 3 (8.25 units)</b>	<b>Year 3 (8.25 units)</b>
CSC 299: Junior Seminar (0.25 unit; Spring) CS Option 1 <u>or</u> CSC 345: Operating Systems ( <i>if not already taken</i> ) CSC 415: Software Engineering CSC 435: Programming Languages ( <i>Fall, if selected option</i> ) CS Option 2 Free Elective Science Liberal Learning (2 units)	CSC 299: Junior Seminar (0.25 unit; Spring) CS Option 1 <u>or</u> CSC 345: Operating Systems ( <i>if not already taken</i> ) CSC 415: Software Engineering CSC 445: Theory of Computation ( <i>Spring, if selected option</i> ) CS Option 2 <u>or</u> CS Capstone ( <i>Mentored Research suggested for either choice</i> ) Free Elective = Mentored Research 1 or 2 with intent to publish suggested Science Liberal Learning (2 units)
<b>Year 4 (8 units)</b>	<b>Year 4 (8 units)</b>
CS Capstone ( <i>Internship suggested</i> ) CS Option 3 Free Elective (3 units) Liberal Learning (3 units)	CS Option 2 <u>or</u> CS Capstone ( <i>Internship suggested</i> ) CS Option 3 ( <i>CSC 435 suggested</i> ) Free Elective = Mentored Research 1 or 2 with intent to publish suggested Free Elective (2 units) Liberal Learning (3 units)

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The flowchart below shows the Computer Science core and optional courses. The arrows indicate the prerequisite structure.

