

Suggested Sequence for Computer Science Majors

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.

Suggested Sequence for Students Intending to apply for **Jobs in the Industry**

Year 1 (8 units)	CSC 099: Orientation to CS (0 unit; Fall) CSC 220: Computational Problem Solving MAT 127: Calculus A Freshman Seminar (Liberal Learning; Fall) World Language 1	CSC 230: Data Structures CSC 270: Discrete Structures MAT 128: Calculus B <u>or</u> MAT 205: Linear Algebra World Language 2
Year 2 (8.25 units)	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 <u>or</u> CSC 345: Operating Systems CS Option	Mobile Computing <u>or</u> Free Elective Science STA 215: Statistical Inference World Language 3
Year 3 (8.25 units)	CSC 299: Junior Seminar (0.25 unit; Spring) CS Option <u>or</u> CSC 345: Operating Systems (<i>if not taken in Year 2</i>) CS Option CSC 415: Software Engineering	Free Elective Science (2 units) Liberal Learning (2 units)
Year 4 (8 units)	CS Capstone (<i>Internship suggested</i>) CSC 435: Programming Languages <u>or</u> CSC 445: Theory of Computation	Free Elective (2 units) Science <u>or</u> Math Liberal Learning (3 units)

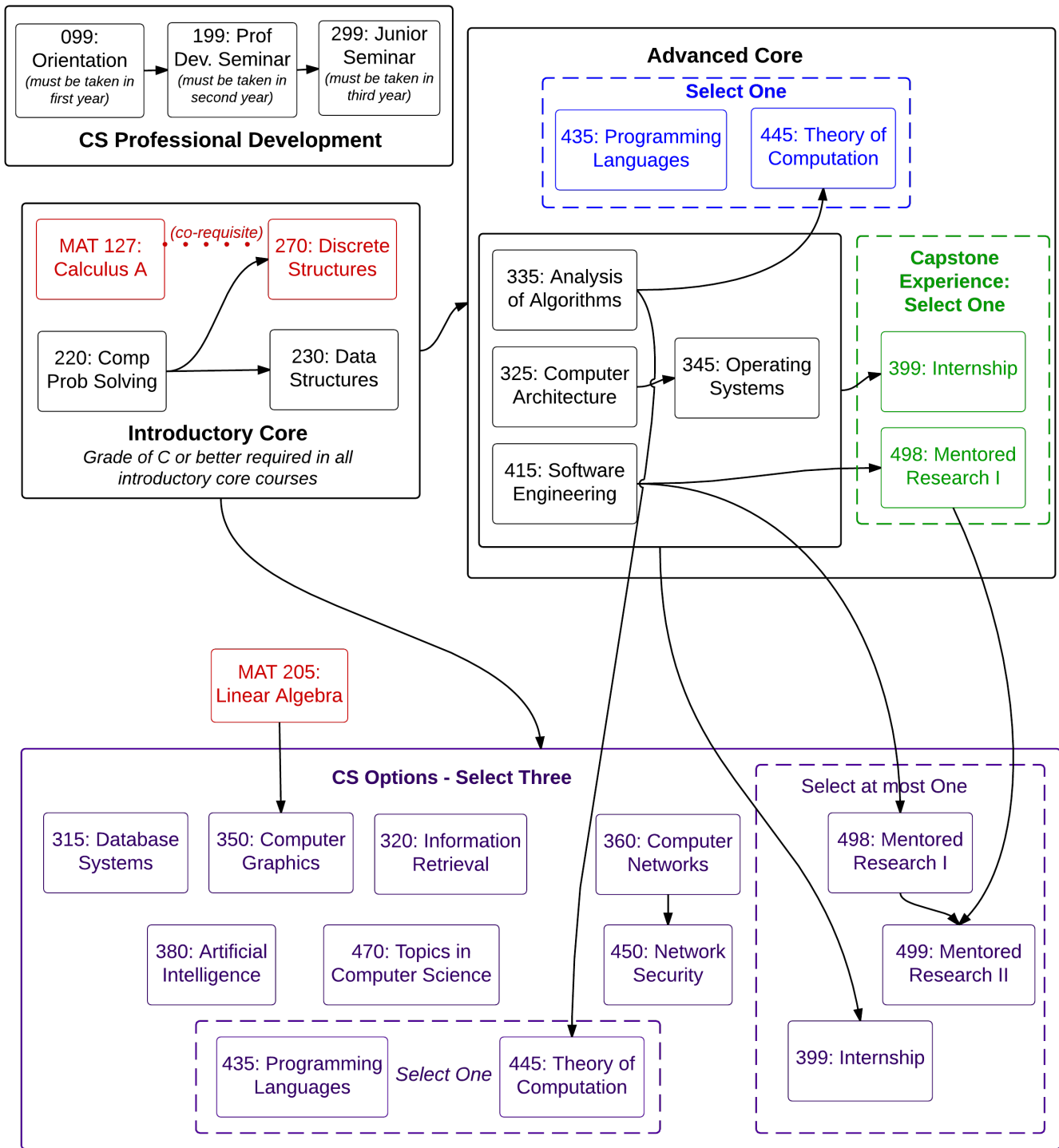
Suggested Sequence for Students Intending to apply to **Graduate Schools**

Year 1 (8 units)	CSC 099: Orientation to CS (0 unit; Fall) CSC 220: Computational Problem Solving MAT 127: Calculus A Freshman Seminar (Liberal Learning; Fall) World Language 1	CSC 230: Data Structures CSC 270: Discrete Structures MAT 128: Calculus B <u>or</u> MAT 205: Linear Algebra World Language 2
Year 2 (8.25 units)	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 <u>or</u> CSC 345: Operating Systems CS Option	Mobile Computing <u>or</u> Free Elective Science STA 215: Statistical Inference World Language 3
Year 3 (8.25 units)	CSC 299: Junior Seminar (0.25 unit; Spring) CS Option <u>or</u> CSC 345: Operating Systems (<i>if not taken in Year 2</i>) CSC 415: Software Engineering CSC 445: Theory of Computation CS Capstone (<i>Mentored Research suggested</i>)	Free Elective = CS Capstone (<i>Mentored Research 1 or 2 with intent to publish suggested</i>) Science Liberal Learning (2 units)
Year 4 (8 units)	CS Option (<i>CSC 435: Programming Languages suggested</i>) Free Elective = CS Capstone (<i>Mentored Research 1 or 2 with intent to publish suggested</i>)	Science Science <u>or</u> Math Free Elective Liberal Learning (3 units)

Suggested Sequence for Computer Science Majors

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

Computer Science Major Requirements and Course Prerequisite Structure



(All course prefixes are CSC)

Legend:

- Black: Required Core
- Blue: Required Selection
- Purple: Major Elective
- Red: Required Math
- Green: Required Capstone