## Suggested Sequence for Computer Science Majors with Data Science Specialization

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.

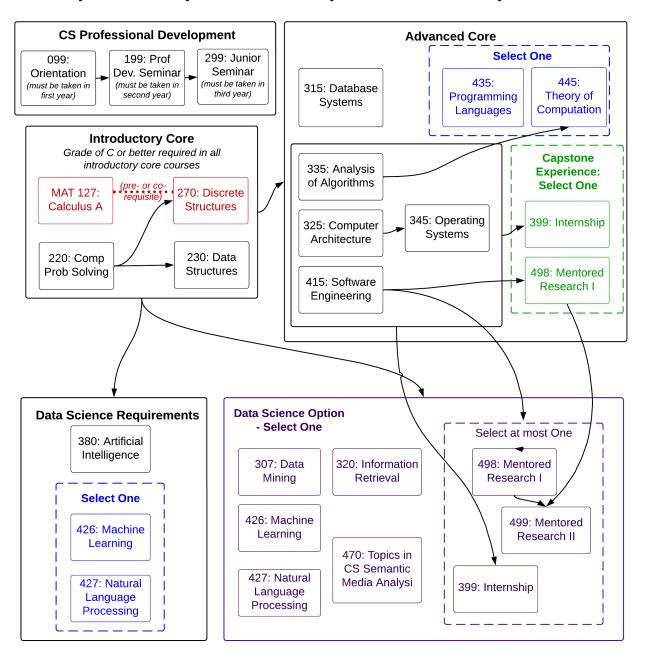
- Green indicates Computer Science courses;
- **Blue** indicates Math or Science correlate courses;
- **Orange** indicates College Core / Liberal Learning courses, including the world language requirement.
- **Black indicates** free elective courses.

Year 1 (8 units)	
Fall	Spring
CSC 099: Orientation to CS (0 unit; Fall)	CSC 230: Data Structures (Spring)
CSC 220: Computational Problem Solving (Fall)	CSC 270: Discrete Structures (Spring)
MAT 127: Calculus A	STA 215: Statistical Inference
First Year Seminar (Fall)	World Language 2
World Language 1	
Year 2 (8.25 units)	
CSC 199: Prof. Dev. Seminar (0.25 unit; Fall)	MAT 205: Linear Algebra
CSC 325: Computer Architecture	STA 305: Regression Analysis
CSC 335: Analysis of Algorithms	STA 306: Multivariate Statistics
CSC 345: Operating Systems	World Language 3 (if needed) or College
CSC 315 (Spring)	Core / Liberal Learning
Year 3 (8.25 units)	
CSC 299: Junior Seminar (0.25 unit; Spring)	CS Option (from approved list of CS Options
CSC 380: Artificial Intelligence	for Data Science)
CSC 426: Machine Learning or CSC 427: Natural	Science (2 units)
Language Processing	College Core / Liberal Learning (2 units)
CSC 415: Software Engineering	
Year 4 (8 units)	
CSC 399: Internship or CSC 498: Mentored Research	
CSC 435: Programming Languages or CSC 445: Theory of Computation	
College Core / Liberal Learning (2-3 units as needed)	
Free Elective (3 units) – recommended to take courses from lists of CS Options or additional	
courses approved for Data Science	

## Suggested Sequence for Computer Science Majors with Data Science Specialization

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

## Computer Science Major with Data Science Specialization Course Prerequisite Structure



(All course prefixes are CSC, unless otherswise specified) Legend:

Black: Required Core Blue: Required Selection Green: Required Capstone

Purple: Major Elective Red: Required Math