

**SUGGESTED COURSE SEQUENCE**  
**COMPUTER SCIENCE MAJOR**

**Requirements for a Major in Computer Science (B.S.)**

A minimum of 16 (12 units + 4 cognates) units with the following distribution:

Computer Science 130 (or 132), 142, 251, 252, 325, 351 OR 352 OR 353 OR 422, 356, 453 OR 456 if not taken as senior capstone courses - 8 units

**Senior Reflective Tutorial:** Computer Science 400 - 1 unit

**Senior Capstone Course:** Computer Science 453 OR 456 - 1 unit.

**Electives - 2 units to be chosen from:**

Computer Science 132 (or 130), 212, 343, 345, 350, 351, 352, 353, 422, 482, 595.

**Cognate requirements - 4 units:**

Mathematics 121, 122, 230, 232.

**Note:** Courses below should be taken not later than the corresponding semester listed. Obviously, earlier is fine provided that all prerequisites and dependencies are satisfied - see dependency graph attached.

| Semester         | Courses | Required                    | Electives<br>(choose 2) | Comments   |
|------------------|---------|-----------------------------|-------------------------|--|
| Freshmen Spring  |         |                             |                         | MA 110 (MA minor option)   |
| Sophomore Fall   |         | CS 130                      | CS 132                  | MA 119 (MA minor option)   |
| Sophomore Spring |         | CS 142, MA 121              | CS 212                  | <b>Note:</b> MA 122 should be in Junior Spring, and CS 353 in Junior Fall, if possible |
| Junior Fall      |         | CS 251,<br>MA 230, MA 232   | CS 353                  |  |
| Junior Spring    |         | CS 252, CS 325<br>MA 122    | CS 352                  |  |
| Senior Fall      |         | CS 453 + CS 400<br>CS 356   | CS 422<br>(CS 353)      | <b>CS 453 OR 456 (Capstone Courses) + CS 400 (Senior RFT)</b>                          |
| Senior Spring    |         | CS 456 + CS 400<br>(MA 122) | CS 351                  |  |

## SUGGESTED COURSE SEQUENCE COMPUTER SCIENCE MAJOR

**A** → **B** := Course A is a *prerequisite* of Course B

**A** - - - → **B** := Course A is *recommended* before Course B

Courses below should be taken not later than the corresponding semester listed. Obviously, earlier is fine provided that all prerequisites and dependencies are satisfied.

