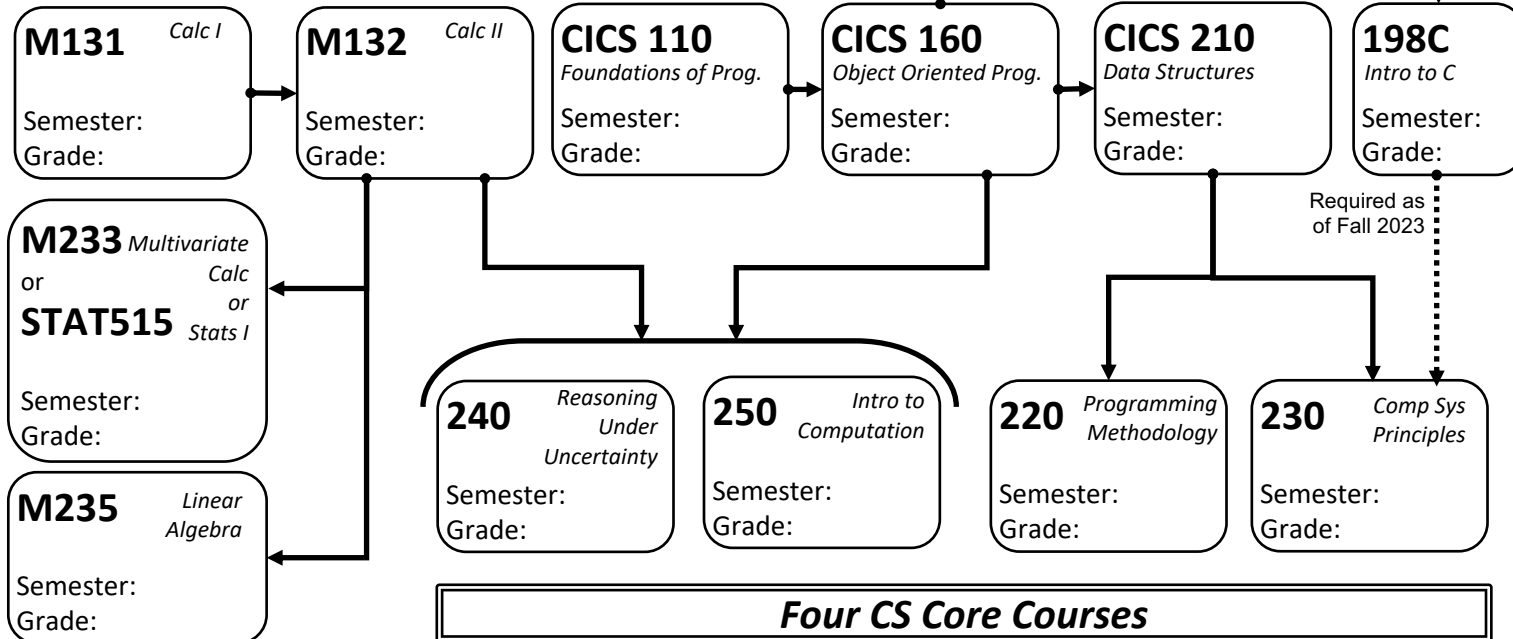


Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Advisor: \_\_\_\_\_

### Four Math Courses

### Three Introductory CS Courses



### Four CS Core Courses

### Eight Upper-Level Courses

**311** *Algorithms* (prereq: 250)  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 300+**  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 300+** \*IE Req, if 320 or 326  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 300+**  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 300+** \*UPD may approve a maximum of 3 credits of CS 499T/P or CS 396/496 to satisfy a CS elective at the appropriate level.  
\*Some graduate (600) level+ courses are permitted, but often have twice the workload of undergrad courses.  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 300+** \*\*Or, Outside Approved Elective  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 400+**  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 400+**  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

**CS 400+**  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

### Integrative Experience

Univ requires IE and JYW courses be taken at UMass Amherst. Secondary CS Majors should satisfy IE and JYW Reqs in primary major.

**Choice of 320\*, 326\***  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_  
\*320 or 326 may also satisfy an upper-level elective.

### JrYr Writing

**305** *Social Issues in Computing* (Or JYW in another dept)  
Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_

### Major GPA

(See ARR) \_\_\_\_\_

Minimum 2.0 cumulative GPA in all courses applied to major. Pass/Fail not allowed in major.

### CNS Lab Science Courses (8 credits)

**CHEM 111 (or 121)**  
**CHEM 112 (or 122)**  
**GEOL 101/lab, (or 103/131, or 105/131)**  
**PHYSIC 151 (or 181)**  
**PHYSIC 152 (or 182)**  
**CICS 256**

Semester: \_\_\_\_\_ Semester: \_\_\_\_\_  
Grade: \_\_\_\_\_ Grade: \_\_\_\_\_

Please see the section on Lab Science Courses at:  
<https://www.cics.umass.edu/ugrad-education/details-bs-requirements>

\*\*Approved Outside Elective courses that may count in place of one CS 300+:  
ECE 353, ECE 547, ECE 668, LINGUIST 401,  
MATH 411, MATH 545, MATH 551, MATH 552

## Specialized Areas of Study in CS

Select courses in specialized areas of study, or take courses across disciplines to satisfy Eight (8) upper-level requirements for the BS:

- 311 Algorithms
- 3 CS300+ (may include IE Req)
- 3 CS400+
- 1 CS300+ (or Outside Approved Elec)

Courses offered in CS cover many areas, including:

Artificial Intelligence  
Computer Architecture  
Data Science  
Information Retrieval  
Natural Language Processing  
Networking  
Robotics, Vision and Graphics  
Security and Privacy  
Software Engineering  
Software Systems  
Theory of Computation

### Course Offering Plan:

<https://www.cics.umass.edu/content/course-offering-plan>

### MY PLANNED UPPER-LEVEL CS

1. 311
2. CS300+ (IE 320||326) \_ \_ \_ \_
3. CS300+ \_ \_ \_ \_
4. CS300+ \_ \_ \_ \_
5. CS400+ \_ \_ \_ \_
6. CS400+ \_ \_ \_ \_
7. CS400+ \_ \_ \_ \_
8. CS300+/OE \_ \_ \_ \_ \_ \_

### MY PLANNED UPPER-LEVEL CS

1. 311
2. CS300+ (IE 320||326) \_ \_ \_ \_
3. CS300+ \_ \_ \_ \_
4. CS300+ \_ \_ \_ \_
5. CS400+ \_ \_ \_ \_
6. CS400+ \_ \_ \_ \_
7. CS400+ \_ \_ \_ \_
8. CS300+/OE \_ \_ \_ \_ \_ \_

### MY PLANNED UPPER-LEVEL CS

1. 311
2. CS300+ (IE 320||326) \_ \_ \_ \_
3. CS300+ \_ \_ \_ \_
4. CS300+ \_ \_ \_ \_
5. CS400+ \_ \_ \_ \_
6. CS400+ \_ \_ \_ \_
7. CS400+ \_ \_ \_ \_
8. CS300+/OE \_ \_ \_ \_ \_ \_

**Junior Year Writing (JYW) Requirement:** Primary computer science majors must take CompSci 305 *Social Issues in Computing*. The University's JYW requirement must be taken at UMass Amherst. Secondary CS Majors should complete the JYW requirement in their primary major. Primary CS Majors may

**Integrative Experience (IE) Requirement:** Students satisfy the University's IE Requirement by taking an approved IE course in their primary major at UMass Amherst. CompSci 320 *Software Engineering* and CompSci 326 *Web Programming* (Spring 2014 or later) are currently the designated IE courses for CS and also count as a CS Elective.

### When does a class count for the CS major?

A computer science major may not use any course taken on a pass/fail basis to fulfill the computer science program requirements (including mathematics, lab science, and computer science introductory, core, and upper-level elective courses). Students must maintain an average grade of at least C (2.0) in all courses used to satisfy the major degree requirement (see major GPA on the ARR). While courses with grades of C-, D+, or D may be counted toward the degree, students normally repeat these courses so that the new grade will replace the old in their GPA calculation (Check [Academic Regulations](#) for rules about repeating courses). A grade *below* C will normally not suffice as a prerequisite for a later course. For example, enrolling in COMPSCI 220 requires a grade of "C or better" in COMPSCI 187.

**What is an approved CS elective?** <https://www.cics.umass.edu/degrees>

Any regularly numbered COMPSCI course at the 300-level or above may be used as an elective, excluding COMPSCI 305, or if it is specifically barred as an elective in its course description. Many COMPSCI 500-level courses that are open to undergraduates may also be used for CS Electives.

- Experimental courses (x90), seminar courses (x91) and special topics (x97) may only be used as CS electives at the 300-level (or above) if specifically stated in the course description.
- CS Capstone courses (499T/P) may be used with UPD approval\*.
- Independent studies (x96) at the 300-level (or above) are reviewed for elective credit via the independent study approval process when registering\*.
- If a course is not showing correctly on the ARR, we will assume that you will use it for the major and will fix your ARR. **Only email [upd@cs.umass.edu](mailto:upd@cs.umass.edu) if you opt not to use any of these courses.**

NOTE: \*Only 3 credits of either COMPSCI 499P/T or COMPSCI 396/496/596 may be used toward CS Major requirements.

### Details about your ARR and how/when we will fix it:

ARR for CS Majors may show missing major requirements if students are taking **COMPSCI x90-x99** courses. Course descriptions note when these types of courses satisfy CS Electives (300-, 400-, 500-level). Graduate level (690-699) courses will not indicate whether it counts for CS Major requirements in the course description and are vetted by the UPD. <https://www.cics.umass.edu/ugrad-education/courses>

REMEMBER: No P grades for major requirements.

**IMPORTANT:** The ARR may not get fixed for **in-progress** courses (or even completed courses in some cases) until *at least after mid-semester date*, but it could be closer to, or at the time of major clearance during your last semester (after grades post). Why?

- Some students take more courses than needed for a particular requirement group, i.e., CS300+, and we try to use the higher grades when 'fixing' the ARR.
- Exceptions or 'fixes' on the ARR are not bumped out if you do better in another course that satisfies the same requirement group.
- Students cannot elect P/F on major requirements, so we wait until at least after mid-semester date before fixing the ARR. NOTE: if we decide to fix an ARR before this and a student receives a P grade, then the course will be removed from satisfying a requirement at the time of major clearance, which may impact degree completion.
- Some students prefer to 'save' 500-level+ course(s) for a graduate program, when applicable (course cannot count toward *any* undergraduate degree requirements -or- toward the 120 credits/150 credits for a dual degree).