

## Computer Science Major Planning Form

The course requirements are Mathematics 111; Computer Science 111, 201, 202, 204, 208, 251, 252, and 254; and two additional courses from among: Computer Science courses numbered 200 or above, Mathematics 311, and Physics 247. Although they are not required for the CS major, we recommend that our students take as many mathematics and statistics courses as possible. In addition, each CS major must complete an integrative exercise: during fall and winter terms of the senior year, the student will participate on a team of four to seven students working on a faculty-specified project. Potential majors should take Computer Science 111, Mathematics 111, and at least one of Computer Science 201, 202, 204, and 208 by the end of the sophomore year. Students contemplating graduate study in computer science should consider taking additional courses in both mathematics (ideally the full Calculus sequence, Mathematics 215, and 232) and computer science. Those interested in computer engineering should consider taking physics courses through Electricity and Magnetism and Electronics.

You can use the check-off below to record when you have completed the required courses.

|          |       |        |       |
|----------|-------|--------|-------|
| MATH 111 | _____ | CS 208 | _____ |
| CS 111   | _____ | CS 251 | _____ |
| CS 201   | _____ | CS 252 | _____ |
| CS 202   | _____ | CS 254 | _____ |
| CS 204   | _____ |        |       |

Two additional courses numbered 200 or above:

\_\_\_\_\_  
\_\_\_\_\_

As you're planning your courses for the next two years we have provided you a list of the classes to be offered. The classes for 2011-2012 are tentative at this time.

### 2010-11 Class Offerings

CS 111 Introduction to Computer Science  
 CS 201 Data Structures  
 CS 202 Mathematics of Computer Science  
 CS 204 Software Design  
 CS 208 Comp. Org. & Architecture  
 CS 251 Programming Languages  
 CS 252 Algorithms  
 CS 254 Automata & Computability  
 CS 311 Computer Graphics  
 CS 322 Natural Language Processing  
 CS 331 Computer Networking  
 CS 341 Cryptography  
 CS 352 Advanced Algorithms  
 CS 361 Evolutionary Comp. & Artificial Life

### 2011-12 Tentative Class Offerings

CS 108 Life in the Age of Networking  
 CS 111 Introduction to Computer Science  
 CS 201 Data Structures  
 CS 202 Mathematics of Computer Science  
 CS 204 Software Design  
 CS 208 Computer Organization & Architecture  
 CS 231 Computer & Network Security  
 CS 251 Programming Languages  
 CS 252 Algorithms  
 CS 254 Automata & Computability  
 CS 321 Artificial Intelligence  
 CS 332 Operating Systems  
 CS 334 Database Systems  
 CS 395 Senior Seminar