This sheet applies to the 2011-2012 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>34 min</th>
<th>Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major courses</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Minor in Computer Science (Required)</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td><strong>Total to graduate (min. 40 hrs upper-division)</strong></td>
<td><strong>120 min</strong></td>
<td></td>
</tr>
</tbody>
</table>

### GENERAL STUDIES

**Composition**
- ENG 1010-3 Freshman Comp: the Essay
- ENG 1020-3 Freshman Comp: Anal., Rsrch & Docum.

**Mathematics**
- MTH 1110-4 College Algebra or higher level math

**Communications**
- 3

**Historical**
- 3

**Arts & Letters**
- 3
- 3

**Social Sciences**
- 3
- 3

**Natural Sciences**
- 3
- 3

**Multicultural Requirement**

*(may be satisfied within General Studies, major, minor or electives)*
- 3

### MAJOR COURSES

- MTH 1410-4 Calculus I*
- MTH 2410-4 Calculus II
- MTH 2420-4 Calculus III
- MTH 3100-3 Introduction to Mathematical Proofs

*Some sections of this course have a Mathematica component.

### COMPUTER SCIENCE EMphasis:

- MTH 3140-4 Linear Algebra (see dept. for approved substitutions)
- MTH 3210-4 Probability & Statistics
- MTH 3420-4 Differential Equations
- MTH 4480-4 Numerical Analysis I (Senior Experience)

Select two of the following courses:

- MTH 3220-4 Design of Experiments
- MTH 3440-4 Partial Differential Equations
- MTH 4210-4 Probability Theory
- MTH 4490-4 Numerical Analysis II

Select one of the following courses:

- MTH 4290-1 Senior Statistics Project
- MTH 4390-1 Mathematics Senior Seminar
- MTH 4590-1 Applied Mathematics Senior Seminar

### MINOR COURSES (Required for the Computer Science Concentration)

- CS 1050-4 Computer Science 1
- CS 2050-4 Computer Science 2
- CS 3210-4 Principles of Programming Languages
- CS 3240-2 Introduction to the Theory of Computation
- CS 4050-4 Algorithms & Algorithm Analysis
- CS 4250-4 Software Engineering Principles

A grade of "C" or better is required in each course included in the major and in the required Computer Science minor.