Description/ Objective:
The Computer Science Department offers courses to develop not only their programming skills and technical knowledge, but also their communication and critical thinking skills. Students are also given opportunities, both inside and outside the classroom, to apply their knowledge to real-world problems. Students take applied computer science courses/tracks relative to areas such as bioinformatics, business, psychology, and geology. Through service-learning, independent research projects, and internships, they also have the opportunity to work one-on-one with faculty in specialized areas, such as digital image processing, computer assistive technology, game technology, embedded systems, database design, web programming, software engineering, and networking. By combining these opportunities, the department is able to prepare students for long-term success in the computer science field.

Career Opportunities:
Computer Science majors prepare for careers in business, education, industry and government. A Computer Science major may work as a programmer, systems analyst, software engineer, network support, PC support, or teacher. Students also are prepared for graduate school.

High School Background:
The best preparation to enter the department is four years of high school math. Students who enter with a weaker background can take coursework to compensate for deficiencies.
Computer Science Courses Approved for University Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U Studies-Science &amp; Social Policy</td>
<td>110</td>
<td>Computers in a Global Society</td>
</tr>
<tr>
<td>U Studies-Contemporary Citizenship</td>
<td>115</td>
<td>Computer Systems/Internet Technology</td>
</tr>
<tr>
<td>U Studies-Contemporary Citizenship</td>
<td>116</td>
<td>Web Technology I</td>
</tr>
<tr>
<td>U Studies-Critical Analysis</td>
<td>130</td>
<td>Introduction to BASIC Programming</td>
</tr>
<tr>
<td>U Studies-Critical Analysis</td>
<td>150</td>
<td>Overview of Computer Science</td>
</tr>
<tr>
<td>U Studies-Critical Analysis</td>
<td>216</td>
<td>Web Technology II</td>
</tr>
<tr>
<td>U Studies-Critical Analysis</td>
<td>234</td>
<td>Algorithms and Problem Solving I</td>
</tr>
</tbody>
</table>

Department Programs:

B.S. Major: Computer Science- no minor required
B.S. Major: Applied Computer Science- no minor required
B.S. Minor: Computer Science
B.S. Minor: Computer Technology

Declaring a Major:
Complete the Declaration of Major form and submit it to the Computer Science Department Office, 103 Watkins.

First-Year Sample Program:

**Fall Semester**
- Algorithms and Problem Solving I (234) 4 cr.
- Calculus I (160) 4 cr.
- General Education Basic Skills 3 cr.
- General Education Group Requirement 3 cr.
- Physical Education Group Requirement 1 cr.

**Spring Semester**
- Algorithms and Problem Solving II (250) 4 cr.
- Mathematical Foundations of Algorithms (275) 4 cr.
- General Education Basic Skills 3 cr.
- General Education Group Requirement 3 cr.
- General Education Group Requirement 3 cr.