BACHELOR OF SCIENCE (B.S.) MAJOR IN COMPUTER SCIENCE (COMPUTER ENGINEERING CONCENTRATION)

Minimum required: 120 semester hours

General Requirements
1. A minimum of 120 hours is required for graduation. Of those, 9 hours must be writing intensive and 36 hours must be advanced.
2. A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for additional information about general education core curriculum requirements.
3. In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
4. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of language taken in high school, then two semesters of the same modern language must be taken at the college level.
5. The concentration in computer engineering consists of:
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 2400</td>
<td>Circuits I</td>
<td>4</td>
</tr>
<tr>
<td>CS 3369</td>
<td>Embedded Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 4310</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CS 4318</td>
<td>Program Translators</td>
<td></td>
</tr>
<tr>
<td>CS 4328</td>
<td>Operating Systems</td>
<td></td>
</tr>
<tr>
<td>CS 4388</td>
<td>Computer Graphics</td>
<td></td>
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</tbody>
</table>

First Semester | Hours | Second Semester | Hours | Junior Hours
CS 1428        | 4     | CS 2308         | 3     |
MATH 2471      | 4     | MATH 2472       | 4     |
US 1100        | 1     | ENG 1320        | 3     |
ENG 1310       | 3     | PHIL 1305 or 1320| 3     |
COMM 1310      | 3     | MATH 2358       | 3     |

Total Hours: 119

1 Computer Science majors must take sixteen hours (4 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141 and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. Eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.

2 Students pursuing the B.S. are required to complete a total of 17 hours in mathematics from MATH 2471, MATH 2472, MATH 3305, MATH 2358, MATH 3398. Therefore, a Mathematics minor is recommended.
Students pursuing the B.S. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from ENG 2310, ENG 2320, ENG 2330, ENG 2340, ENG 2359, ENG 2360, ENG 3303 (Technical Writing), or ENG 3311 (Writing for the Computer Industry) to fulfill this requirement. ENG 3303 or ENG 3311 is recommended.

Computer Science majors must complete one CS project course from: CS 4326 or CS 4398.

A minor is required, and it is recommended that it be chosen in consultation with the academic advisor.