<table>
<thead>
<tr>
<th>YEAR</th>
<th>TERM</th>
<th>MAJOR</th>
<th>CORE</th>
<th>TOTAL CREDITS</th>
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<tr>
<td>YEAR 1</td>
<td>FALL</td>
<td>CSCI 125 COMPUTER PROGRAMMING I</td>
<td>FCWR 101* FOUNDATIONS OF COLLEGE COMPOSITION</td>
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<td>CSCI 130 COMPUTER ORGANIZATION</td>
<td>FCWR 151* FOUNDATIONS OF RESEARCH WRITING</td>
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<td>SPRING</td>
<td>MATH 180 CALCULUS II</td>
<td>FCSC 101 FOUNDATIONS OF SCIENTIFIC PROCESS</td>
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<td><strong>Pre-Req: FCWR 101, FCWR 151, FCIQ 101, FCSP 105, FCSC 101</strong></td>
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<td><strong>Non-native English speakers should take FCWR 111 in lieu of FCWR 101 and FCWR 161 in lieu of FCWR 151.</strong></td>
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<td><strong>ICSS 309 is cross-listed with IENG 400</strong></td>
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**Natural Science Options: Choose one**

**Computer Science Concentrations: Select one concentration and complete 12 credits**

### Option I
- PHYS 170 General Physics I
- PHYS 180 General Physics II
- Life Science Elective: Biology or Chemistry (3 credits)

### Option II
- CHEM 110 General Chemistry I
- CHEM 150 General Chemistry II
- Physics Elective (3 credits)

### Option III
- BIOL 110 General Biology I
- BIOL 150 General Biology II
- Physics Elective (3 credits)

### Big Data Management and Analytics
- CSCI 436 Big Data Analytics (required*)
- CSCI 426 Information Retrieval
- CSCI 401 Database Interfaces and Programming
- CSCI 405 Distributed Database Systems
- CSCI 415 Introduction to Data Mining

### Network Security
- CSCI 352 Intro to Network and Internet Security
- CSCI 357 CISCO Academy Level 1
- CSCI 440 Network Security & Perimeter Protection
- CSCI 445 Operating System Security
- CSCI 460 Special Topics I
- CSCI 470 Special Topics II

### General Option
- Choose four CSCI/ITEC 300-400 level courses

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(Rev. 04/17)