# Bachelor of Arts in Computer Science

Students must complete the **Core** and **Electives**.

## Core Computer Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 120</td>
<td>Computer Programming I</td>
<td>4</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Computer Programming II</td>
<td>4</td>
</tr>
<tr>
<td>CSC 314</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC 322</td>
<td>System Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 431</td>
<td>Introduction To Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

## Core Mathematics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 161</td>
<td>Calculus I (or equivalent - MTH 140 and MTH 141, MTH 151, or MTH 171)</td>
<td>4</td>
</tr>
<tr>
<td>MTH 309</td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
</tbody>
</table>

## Electives

Select 9 approved credit hours of the following:

- Any CSC 2XX, CSC 3XX, CSC 4XX, CSC 5XX
- CSC 119 Computers and Society
- or BTE 320 Introduction to Programming
- or BTE 410 Information Systems and Technology
- or JMM 341 Web Design
- or GEG 199 Introduction to GIS (Geographic Information Systems)
- or MSC 321 Scientific Programming in the Atmospheric Sciences
- BIL 552 Bioinformatics Tools
- BTE 360 Systems Analysis and Design
- BTE 423 Database Management Systems
- BTE 430 Business Networks
- BTE 465 Web Application Development
- ECE 368 Internet Computing I
- ECE 414 Computer Organization and Design
- ECE 514 Computer Architecture
- ECE 537 Principles of Artificial Intelligence
- ECE 548 Machine Learning
- ECE 553 Neural Networks
- ECE 570 Network Client-Server Programming
- ECE 572 Object-Oriented and Distributed Database Management Systems
- ECE 574 Agent Technology
- ECE 576 Internet and Intranet Security
- ECE 577 Data Mining
- ECE 579 Mobile Computing
- MTH 320 Introduction to Numerical Analysis
- MTH 505 Theory of Numbers
- MTH 520 Numerical Linear Algebra
- MTH 521 Numerical Methods In Differential Equations
- MTH 524 Introduction to Probability Theory
- MTH 525 Introduction to Mathematical Statistics

**Total Credit Hours**: 33