# COMPUTER INFORMATION SYSTEMS, MINOR

The Computer Information Systems minor is a professional program that allows students to specialize in one of three tracks: Data Analytics, Healthcare Information Systems, Information Security & Assurance.

Students may choose this 18-credits program as a minor combined with a major in pursuit of a bachelor's degree.

## Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 1300</td>
<td>Information Systems and Technology</td>
<td>3</td>
</tr>
<tr>
<td>CIS 1600</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3100</td>
<td>Principles of Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3300</td>
<td>Database Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

### Specializations

Select one of the following specializations: 6

- Data Analytics (p. 1)
- Healthcare Information Systems (p. 1)
- Information Security & Assurance (p. 1)

**Total Credits** 18

## Data Analytics Specialization

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 3850</td>
<td>Analytics and Modeling</td>
<td></td>
</tr>
<tr>
<td>CIS 4150</td>
<td>Data Governance</td>
<td></td>
</tr>
<tr>
<td>CIS 4720</td>
<td>Enterprise Application Development</td>
<td></td>
</tr>
<tr>
<td>CIS 4750</td>
<td>Data Mining</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 6

## Healthcare Information Systems Specialization

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 3850</td>
<td>Analytics and Modeling</td>
<td></td>
</tr>
<tr>
<td>CIS 4150</td>
<td>Data Governance</td>
<td></td>
</tr>
<tr>
<td>CIS 4400</td>
<td>Information Systems in Healthcare Organizations</td>
<td></td>
</tr>
<tr>
<td>CIS 4100</td>
<td>Enterprise Architecture</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 0

## Information Security & Assurance Specialization

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 4100</td>
<td>Enterprise Architecture</td>
<td></td>
</tr>
<tr>
<td>CIS 4300</td>
<td>The Fundamentals of Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIS 4600</td>
<td>Information Assurance and Security</td>
<td></td>
</tr>
<tr>
<td>CIS 4720</td>
<td>Enterprise Application Development</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 6

### Continuation Standards

Students must maintain a minimum 2.00 GPA.