**APPLIED COMPUTING MINOR**

**Degree Requirements (18 Hours)**

**Foundation Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>The Digital Earth</td>
<td>3</td>
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</tbody>
</table>

Total Credit Hours: 6

Note: If either or both CSCE 101 and CSCE 102 are used to satisfy the Analytical Reasoning and Problem Solving requirement of the Carolina Core then either GEOG 105, ITEC 101, and/or any Intermediate or Advanced course may be substituted in the minor.

**Intermediate Courses (6 hours)**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 263</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ISCI 201</td>
<td>Data, Information &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>ISCI 202</td>
<td>Information Literacy and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 6

Note: No course used to satisfy a Carolina Core, Major, or other Minor requirement may be used to satisfy the Applied Computing Minor requirements. In the event of conflict for an Intermediate Course, any Intermediate or Advanced course may be substituted to satisfy the minor.

**Advanced Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOG 477</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 484</td>
<td>GIS-Based Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 487</td>
<td>Geographic Information System (GIS) Databases and Their Use</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 362</td>
<td>Introduction to Web Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 370</td>
<td>Database Systems in Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 445</td>
<td>Advanced Networking and Security</td>
<td>3</td>
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<tr>
<td>ITEC 447</td>
<td>Management of Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 493</td>
<td>Information Technology Security for Managers</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 455</td>
<td>Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 461</td>
<td>Project Management Methods</td>
<td>3</td>
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<td>ITEC 462</td>
<td>Advanced Web Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 464</td>
<td>Capstone Project for Information Technology</td>
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<tr>
<td>ITEC 470</td>
<td>Database Management and Administration</td>
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</tr>
<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td>3</td>
</tr>
<tr>
<td>MART 380</td>
<td>New Media Art</td>
<td>3</td>
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</tbody>
</table>

Total Credit Hours: 18

Note: No course used to satisfy a Carolina Core, Major, or other Minor requirement may be used to satisfy the Applied Computing Minor requirements. In the event of conflict for an Advanced Course, any other Advanced course may be substituted to satisfy the minor.

**Advisement Tracks**

The following tracks are recommended (but not required) for students interested in particular areas within computing. Suggested courses for such tracks are listed below.

**Animation**

<table>
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<tr>
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<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td>3</td>
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<tr>
<td>MART 571C</td>
<td>Moving Image Advanced: Animation</td>
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Total Credit Hours: 18

**Databases**

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Total Credit Hours: 18

**Game Design**

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### Applied Computing Minor

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- **18**

#### Geographic Information Systems

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<td>Program Design and Development</td>
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<td>The Digital Earth</td>
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<tr>
<td>GEOG 263</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 554</td>
<td>Spatial Programming</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 563</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
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#### Total Credit Hours
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#### Geographic Data: Visualization and Application

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<td>GEOG 341</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 551</td>
<td>Remote Sensing of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>GIS-Based Modeling</td>
<td>3</td>
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#### Total Credit Hours
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#### Information Infrastructure

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<tr>
<td>ISCI 402</td>
<td>Management in Data Driven Organizations</td>
<td>3</td>
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<tr>
<td>ISCI 435</td>
<td>Planning and Sustaining Digital Projects</td>
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#### Information Science

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<td>ISCI 301</td>
<td>Text Mining in Big Data Analytics</td>
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<tr>
<td>ISCI 420</td>
<td>Information and Communication Needs and Assessment</td>
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#### Total Credit Hours
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#### Networking

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#### Total Credit Hours
- **18**

#### Other Course Substitutions

The university may develop new courses that are appropriate for this minor as a result of rapid advances in computing. A student may substitute such a course for one of the requirements only with the approval of the advisor of the student and the director of the minor.

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<tr>
<td>ITEC 545</td>
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#### Total Credit Hours
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#### Project Management

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<td>Introduction to Web Systems</td>
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<tr>
<td>ITEC 560</td>
<td>Project Management Methods</td>
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#### Web Development

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</tr>
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<td>MART 210</td>
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<td>3</td>
</tr>
<tr>
<td>ITEC 362</td>
<td>Introduction to Web Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 562</td>
<td>Advanced Web Support Systems</td>
<td>3</td>
</tr>
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