# Bachelor of Science, Major in Digital and Cyber Forensic Engineering Technology

## Core Curriculum

<table>
<thead>
<tr>
<th>Component Area</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (Communications)</td>
<td>6</td>
</tr>
<tr>
<td>II (Mathematics)</td>
<td>3</td>
</tr>
<tr>
<td>III (Life and Physical Science)</td>
<td>8</td>
</tr>
<tr>
<td>IV (Language, Philosophy, and Culture)</td>
<td>3</td>
</tr>
<tr>
<td>V (Creative Arts)</td>
<td>3</td>
</tr>
<tr>
<td>VI (U.S. History)</td>
<td>6</td>
</tr>
<tr>
<td>VII (Political Science/Government)</td>
<td>6</td>
</tr>
<tr>
<td>VIII (Social and Behavioral Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>IX (Component Area Option)</td>
<td>4</td>
</tr>
</tbody>
</table>

## Degree Specific Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1420</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1430</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2395</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3379</td>
<td>Statistical Methods In Practice</td>
<td>3</td>
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</table>

## Required Major Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COSC 1436</td>
<td>Programming Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1437</td>
<td>Programming Fundamentals II</td>
<td>4</td>
</tr>
<tr>
<td>COSC 2327</td>
<td>Intro to Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COSC 2329</td>
<td>Comp Organiz &amp; Machine Lang</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3312</td>
<td>Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3318</td>
<td>Data Base Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3319</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4314</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4319</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4349</td>
<td>Professionalism and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 1316</td>
<td>DF and IA Fundamentals I</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 2316</td>
<td>DF and IA Fundamentals II</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 2320</td>
<td>Hardware Forensics</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 3316</td>
<td>Cryptography and Network Scrtty</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 4317</td>
<td>Information Security</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 4318</td>
<td>Malware</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 4338</td>
<td>Cyber Warfare</td>
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## Prescribed Electives Choose 2 of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>COSC 3327</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COSC 3331</td>
<td>Human-Computer Interaction</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4318</td>
<td>Advanced Language Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4326</td>
<td>Network Theory</td>
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<tr>
<td>COSC 4327</td>
<td>Computer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4332</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4337</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>COSC 4340</td>
<td>Spc Tpcs In Computer Sci</td>
<td>3</td>
</tr>
<tr>
<td>DFSC 4319</td>
<td>Principles of Data Quality</td>
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## Electives

<table>
<thead>
<tr>
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## Total Hours

121
MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaI)</td>
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<td>Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaI)</td>
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<td>Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaIII)</td>
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<td>Compnent Area VI</td>
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<td>Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaVI)</td>
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| MATH 1420¹ | | | |
|            | 4     | MATH 1430 | 4     |

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaIV)</td>
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<td>Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaVII)</td>
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<td>Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaV)</td>
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<td>Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaVIII)</td>
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<td>Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaVII)</td>
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<td>Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaIX)</td>
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<tr>
<td>MATH 2395</td>
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<td>MATH 3379</td>
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| 16          | 16     |

**Third Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Spring</th>
<th>Hours</th>
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<tbody>
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<td>Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaIX)</td>
<td>1</td>
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<td>COSC 2327</td>
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<tr>
<td>COSC 2329</td>
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<td>DFSC 2320</td>
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<tr>
<td>COSC 3312</td>
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<td>DFSC 3316</td>
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<tr>
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<tr>
<td>Elective</td>
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</table>

| 16          | 15     |

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Prescribed Elective²</td>
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<td>Prescribed Elective²</td>
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<tr>
<td>DFSC 4317</td>
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<td>COSC 4314</td>
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<td>COSC 4349</td>
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<tr>
<td>COSC 3321</td>
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<td>DFSC 4318</td>
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<td>COSC 3319</td>
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<td>DFSC 4338</td>
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</table>

| 15          | 15     |

Total Hours: 121

¹ MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

² Choose 1 of the following Prescribed Electives: COSC 3327, COSC 3331, COSC 4337, COSC 4318 COSC 4326,COSC 4327, COSC 4332, COSC 4340, , or DFSC 4319.