CYBERSECURITY B.S. - INFORMATION SYSTEMS & TECHNOLOGY

Bachelor of Science - Cybersecurity; Information Systems & Technology Concentration

General Education Requirements
Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements/) of the catalog.

Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Lower Core</td>
<td></td>
<td>15-17</td>
</tr>
<tr>
<td>Technical Lower Core</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Upper Core</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Cybersecurity Requirements</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>69-71</td>
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</tbody>
</table>

Degree Specific Credits: 69-71

Required Cumulative GPA: 2.0

Notes:
- At least 54 credits must be earned in Business classes (ECNS, COB internship courses and College of Business faculty-led study abroad course may be counted in OR out of Business). A minimum GPA of 2.0 is required for these courses.
- At least 27 credits in business AND BMIS 476 must be taken at UM.
- All business credits transferred in after matriculating to UM must be pre-approved by the department chair in your major.

Primary Lower Core

Notes:
- Unless a higher requirement is specified, all primary lower core courses must be completed with a C- or better and a 2.0 GPA in the listed courses prior to admission into the upper-division Cybersecurity major.
- The College of Business requires that credit be earned for STAT 216 (preferred) or one of the other statistics courses listed below with a C- or better prior to being admitted into the upper-division Cybersecurity major.

Complete one of the following courses:
- M 115 Probability and Linear Mathematics
- M 121 College Algebra
- M 151 Pre-calculus
- M 162 Applied Calculus

Complete one of the following courses: 3-4
- FORS 201 Forest Biometrics
- PSYX 222 Psychological Statistics
- SOCI 202 Social Statistics
- STAT 216 Introduction to Statistics

Total Hours 15-17

Minimum Required Grade: C-

Technical Lower Core

Note: Students are advised to complete the technical lower core in their freshman and sophomore years.

Complete all of the following courses:
- ACTG 201 Principles of Financial Accounting 3
- BGEN 222 Business Models and Operations 3
- BMIS 270 MIS Foundations for Business 3
- ITS 150 CCNA 1: Exploration 3
- ITS 212 Network OS - Server Administration 3
- ITS 222 Enterprise Security 3

Complete one of the following courses: 3
- ITS 152 CCNA 2: Exploration
- ITS 165 Introduction to Operating Systems and the Command Line
- ITS 214 Network OS - Infrastructure
- ITS 250 CCNA 3: Exploration
- ITS 279 Cloud Systems
- ITS 280 Computer Repair & Maintenance
- MART 220 Creative Coding II
- SOCI 221 Criminal Justice System

Total Hours 21

Minimum Required Grade: C-

Upper Core

Note: All upper major core courses must be completed before the capstone can be taken. A student must be listed as a major in Cybersecurity to take these courses. This is defined as junior standing with all primary lower core courses completed, a 2.0 cumulative GPA, and formal admission to the major.

Complete all of the following courses:
- BGEN 341 People, Process and Technology I 3
- BGEN 342 People, Process and Technology II 3
- BGEN 361 Principles of Business Law 3
- BMIS 326 Introduction to Data Analytics 3

Complete one of the following courses: 3-4
### Cybersecurity Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Act 1:</strong></td>
<td></td>
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</tr>
<tr>
<td>ACTG 321</td>
<td>Accounting Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td>BMIS 494</td>
<td>Seminar (Cyber-operation)</td>
<td>3</td>
</tr>
<tr>
<td>BMIS 365</td>
<td>Business App Development</td>
<td>3</td>
</tr>
<tr>
<td>BMIS 373</td>
<td>Business System Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>BMIS 476</td>
<td>Integrated Project Management for IS</td>
<td>3</td>
</tr>
<tr>
<td>or BMIS 482</td>
<td>Big Data Project</td>
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<tr>
<td><strong>Act 2:</strong></td>
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<tr>
<td>BMIS 370</td>
<td>Managing Information and Data</td>
<td>3</td>
</tr>
<tr>
<td>BMIS 372</td>
<td>Information Infrastructures</td>
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<tr>
<td>BMIS 471</td>
<td>Fundamentals of Network &amp; Security Management</td>
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<tr>
<td>BMIS 479</td>
<td>Introduction to Consulting</td>
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<tr>
<td>BMIS 498</td>
<td>Internship</td>
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<tr>
<td>CSCI 340</td>
<td>Database Design</td>
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<tr>
<td>MART 441</td>
<td>Web Technologies</td>
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</tr>
</tbody>
</table>

**Total Hours:** 18

Minimum Required Grade: C-