### 2019 - 2020 Major Map

**Computational Forensics, BS**

**School/College:** New College of Interdisciplinary Arts and Sciences  
**Location:** West campus  
**ASCPFBS**

<table>
<thead>
<tr>
<th>Term 1 0 - 15 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACO 101: Introduction to Computer Science (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 270: Calculus with Analytic Geometry I (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOR 105: Physical Evidence and the Crime Scene (SQ)</td>
<td>4</td>
<td>C</td>
<td></td>
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</tr>
<tr>
<td>NEW 101: The ASU New College Experience</td>
<td>1</td>
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</tr>
</tbody>
</table>

**Term hours subtotal:** 15

- An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses.
- Mathematics Placement Assessment score determines placement in mathematics course.
- ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students. NEW 101 satisfies this requirement.
- IAS 300 (3 credit hours) is required for all transfer students in place of NEW 101.
- Select your career interest area and play me3@ASU.

<table>
<thead>
<tr>
<th>Term 2 15 - 29 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACO 102: Object-Oriented Programming (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 271: Calculus with Analytic Geometry II (MA)</td>
<td>4</td>
<td>C</td>
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<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
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</tr>
<tr>
<td>FOR 106: Biology Behind the Crime Scene (SQ)</td>
<td>4</td>
<td>C</td>
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</tr>
<tr>
<td>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</td>
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</table>

**Term hours subtotal:** 14

<table>
<thead>
<tr>
<th>Term 3 29 - 45 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 272: Calculus with Analytic Geometry III (MA)</td>
<td>4</td>
<td>C</td>
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<td></td>
</tr>
<tr>
<td>ACO 201: Data Structures and Algorithms (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
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<tr>
<td>STP 280: Probability and Statistics for Researchers (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
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</tr>
<tr>
<td>Humanities, Arts and Design (HU)</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Social-Behavioral Sciences (SB) AND Global Awareness (G)</td>
<td>3</td>
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</tr>
<tr>
<td>Complete First-Year Composition requirement.</td>
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<tr>
<td>Complete Mathematics (MA) requirement.</td>
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</table>

**Term hours subtotal:** 16

<table>
<thead>
<tr>
<th>Term 4 45 - 60 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 275: Modern Differential Equations (MA)</td>
<td>3</td>
<td>C</td>
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<td></td>
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<tr>
<td>ACO 240: Introduction to Programming Languages</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>STP 281: Statistical Analysis for Researchers</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Literacy and Critical Inquiry (L)</td>
<td>3</td>
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</tbody>
</table>

- Develop your research skills.
- Explore an internship, ASU study abroad, or an IGLE international experience.
<table>
<thead>
<tr>
<th>Term</th>
<th>Credit Hours</th>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 5 60 - 75 Credit Hours</strong></td>
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</tbody>
</table>
| MAT 243: Discrete Mathematical Structures OR MAT 300: Mathematical Structures (L) | 3 | C | | | • IAS 300 (3 credit hours) is required for all transfer students.  
• Develop your professional online presence |
| MAT 343: Applied Linear Algebra | 3 | C | | | |
| STP 310: Design and Analysis of Experiments | 3 | C | | | |
| STP 311: Regression and Time Series Analyses | 3 | C | | | |
| Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Career Strategies and Personal Resilience (L or SB) | 3 | | | | |
| **Term hours subtotal:** | | | | | 15 |

<table>
<thead>
<tr>
<th>Term</th>
<th>Credit Hours</th>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 6 75 - 90 Credit Hours</strong></td>
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<tr>
<td>MAT 350: Techniques and Applications of Applied Mathematics</td>
<td>3</td>
<td>C</td>
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<td>• Use Handshake to research employment opportunities</td>
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<tr>
<td>STP 450: Nonparametric Statistics</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Computational Forensics Elective</td>
<td>3-4</td>
<td>C</td>
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</tbody>
</table>
| Complete 2 courses:  
Upper Division Elective | | | | | 6 |
| Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s). | | | | | |
| **Term hours subtotal:** | | | | | 15-16 |

<table>
<thead>
<tr>
<th>Term</th>
<th>Credit Hours</th>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 7 90 - 105 Credit Hours</strong></td>
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<tr>
<td>ACO 320: Database Systems</td>
<td>3</td>
<td>C</td>
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</tr>
<tr>
<td>Computational Forensics Elective</td>
<td>3-4</td>
<td>C</td>
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</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Historical Awareness (H)</td>
<td>3</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)</td>
<td>3</td>
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<tr>
<td>Upper Division Elective</td>
<td>3</td>
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<td><strong>Term hours subtotal:</strong></td>
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<td></td>
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<td></td>
<td>15-16</td>
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</tbody>
</table>

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<tr>
<th>Term</th>
<th>Credit Hours</th>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 8 105 - 120 Credit Hours</strong></td>
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<tr>
<td>FOR 350: Computer Forensics</td>
<td>3</td>
<td>C</td>
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<tr>
<td>ACO 423: Data Science</td>
<td>3</td>
<td>C</td>
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</tr>
<tr>
<td>Computational Forensics Elective</td>
<td>3-4</td>
<td>C</td>
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</tr>
</tbody>
</table>
| Complete 2 courses:  
Upper Division Elective OR ACO 484: Internship OR FOR 484: Internship OR MAT 484: Internship OR STP 484: Internship | | | | | 6 |
| **Term hours subtotal:** | | | | | 15-16 |

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Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)
BIO 182: General Biology II (SG)
CHM 113: General Chemistry I (SQ)
CHM 116: General Chemistry II (SQ)
CHM 233: General Organic Chemistry I AND
CHM 237: General Organic Chemistry Laboratory I
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II
FOR 286: Principles of Forensic Science
FOR 402: Forensic Biology
LSC 347: Fundamentals of Genetics AND
LSC 348: Fundamentals of Genetics Laboratory
MAT 421: Applied Computational Methods (CS)
MAT 450: Mathematical Models in Biology
MAT 452: Introduction to Chaos and Nonlinear Dynamics

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**Total College Residency Hrs:** 12 minimum

**General University Requirements Legend**

**General Studies Core Requirements:**
- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

**General Studies Awareness Requirements:**
- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

**First-Year Composition**

General Studies designations listed on the major map are current for the 2019 - 2020 academic year.