## 2021 - 2022 Major Map
### Computational Forensics, BS

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

<table>
<thead>
<tr>
<th>Term 1</th>
<th>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>• ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. NEW 101-M satisfies this requirement.</td>
<td></td>
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</tr>
<tr>
<td>MAT 270: Calculus with Analytic Geometry I (MA)</td>
<td>4</td>
<td>C</td>
<td>• IAS 300 (3 credit hours) is required for all transfer students in place of NEW 101-M.</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>• Select your career interest area and play me3@ASU.</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>• Activate your Handshake account and build out your profile.</td>
<td></td>
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</tr>
<tr>
<td>NEW 101-M: The ASU New College Experience</td>
<td>1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Term hours subtotal:</strong></td>
<td><strong>15</strong></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 2</th>
<th>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>• Completion of ACO 101 and ACO 102 (with a C or better) fulfills the New College Proficiency - Language and Cultures Requirement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 271: Calculus with Analytic Geometry II (MA)</td>
<td>4</td>
<td>C</td>
<td>• Create a first draft resume.</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>• Join a student club or professional organization.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOR 106: Biology Behind the Crime Scene (SQ)</td>
<td>4</td>
<td>C</td>
<td>• Secure a part-time job or volunteer experience.</td>
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<tr>
<td>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</td>
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<tr>
<td><strong>Term hours subtotal:</strong></td>
<td><strong>14</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 3</th>
<th>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>
<td>• Develop your research skills.</td>
<td></td>
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</tr>
<tr>
<td>ACO 131: Global Cybersecurity (G)</td>
<td>3</td>
<td>C</td>
<td>• Develop your professional skills.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACO 201: Data Structures and Algorithms (CS)</td>
<td>3</td>
<td>C</td>
<td>• Build your professional connections -- join the ASU Mentor Network.</td>
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<td></td>
</tr>
<tr>
<td>STP 280: Probability and Statistics for Researchers (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literacy and Critical Inquiry (L)</td>
<td>3</td>
<td></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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<tr>
<td><strong>Term hours subtotal:</strong></td>
<td><strong>16</strong></td>
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<thead>
<tr>
<th>Term 4</th>
<th>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>
<td>• Explore an internship, ASU study abroad, or an IGLE international experience.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACO 240: Introduction to Programming Languages</td>
<td>3</td>
<td>C</td>
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</tr>
</tbody>
</table>
MAT 243: Discrete Mathematical Structures OR MAT 300: Mathematical Structures (L) ........................................ 3  C

STP 281: Statistical Analysis for Researchers .......................................................... 3  C

Social-Behavioral Sciences (SB) ........................................................................ 3

Term hours subtotal: 15

**Term 5 60 - 75 Credit Hours** Necessary course signified by ⭐ Hours Minimum Grade Notes

⭐ ACO 320: Database Systems ........................................................................ 3  C • IAS 300 (3 credit hours) is required for all transfer students in place of NEW 101.

⭐ MAT 343: Applied Linear Algebra ................................................................. 3  C • Thinking about graduate school? Consider registering for a graduate test prep course.

⭐ STP 310: Design and Analysis of Experiments .............................................. 3  C • Develop your professional online presence.

⭐ 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

**Term 6 75 - 90 Credit Hours** Necessary course signified by ⭐ Hours Minimum Grade Notes

⭐ MAT 350: Techniques and Applications of Applied Mathematics ............... 3  C • Use Handshake to research employment opportunities.

⭐ STP 450: Nonparametric Statistics .................................................................. 3  C • Complete an in person or virtual practice interview.

Humansities, Arts and Design (HU) 
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C) .......... 3

Upper Division Elective ......................................................................................... 3

⭐ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

Term hours subtotal: 15

**Term 7 90 - 105 Credit Hours** Necessary course signified by ⭐ Hours Minimum Grade Notes

⭐ ACO 423: Data Science .................................................................................. 3  C • Gather professional references.

Complete 2 courses: 
Upper Division Computational Forensics Elective ........................................ 6-8  C

Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) .............................................. 3

Humansities, Arts and Design (HU) AND Historical Awareness (H) .......... 3

Term hours subtotal: 15-17

**Term 8 105 - 120 Credit Hours** Necessary course signified by ⭐ Hours Minimum Grade Notes

⭐ FOR 350: Computer Forensics ........................................................................ 3  C • Apply for full-time career opportunities.

Complete 2 courses: 
Computational Forensics Elective ................................................................ 6-8  C

Complete 2 courses: 
Upper Division Elective ................................................................................ 6

Term hours subtotal: 15-17

Hide Course List(s)/Track Group(s)

Computational Forensics Elective 
Upper Division Computational Forensics Elective

ACO 321: Database Development & Applications 
ACO 321: Database Development & Applications
ACO 420: Big Data Systems
BIO 181: General Biology I (SQ)
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
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

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: https://cisa.asu.edu/DSP
- Mathematics Placement Assessment score determines placement in first mathematics course.

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 2021 - 2022 academic year.