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 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>
</tr>
<tr>
<td>MAT 270: Calculus with Analytic Geometry I (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 105: Advanced First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 107 or ENG 108: First-Year Composition</td>
<td></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>
</tr>
<tr>
<td>NEW 101: The ASU New College Experience</td>
<td>1</td>
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<td></td>
</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 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>
</tr>
<tr>
<td>MAT 271: Calculus with Analytic Geometry II (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 105: Advanced First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 107 or ENG 108: First-Year Composition</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>
<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 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></td>
</tr>
<tr>
<td>ACO 201: Data Structures and Algorithms (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>STP 280: Probability and Statistics for Researchers (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB) AND Global Awareness (G)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete First-Year Composition requirement.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Mathematics (MA) requirement.</td>
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</tbody>
</table>

Term hours subtotal: 16

<table>
<thead>
<tr>
<th>Term 4 45 - 60 Credit Hours 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></td>
</tr>
<tr>
<td>ACO 240: Introduction to Programming Languages</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>STP 281: Statistical Analysis for Researchers</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Literacy and Critical Inquiry (L)</td>
<td>3</td>
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<td></td>
</tr>
</tbody>
</table>

* Develop your research skills.
* Explore an internship, ASU study abroad, or an IGLE international experience.
## Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)

Term hours subtotal: 15

<table>
<thead>
<tr>
<th>Term 5 60 - 75 Credit Hours Necessary course signified by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 243: Discrete Mathematical Structures OR MAT 300: Mathematical Structures (L)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MAT 343: Applied Linear Algebra</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>STP 310: Design and Analysis of Experiments</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>STP 311: Regression and Time Series Analyses</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Career Strategies and Personal Resilience (L or SB)</td>
<td>3</td>
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</tr>
</tbody>
</table>

Term hours subtotal: 15

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

Term hours subtotal: 15-16

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

Term hours subtotal: 15-16

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

Term hours subtotal: 15-16

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- IAS 300 (3 credit hours) is required for all transfer students.
- Develop your professional online presence.
- Use Handshake to research employment opportunities.
General Studies designations listed on the major map are current for the 2019 - 2020 academic year.

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

**First-Year Composition**

**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)

**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

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
MAT 421: Applied Computational Methods (CS)
MAT 450: Mathematical Models in Biology
MAT 452: Introduction to Chaos and Nonlinear Dynamics