# 2019 - 2020 Major Map

Exploratory Applied Computing, Mathematics and Technology

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

<table>
<thead>
<tr>
<th>Term 1</th>
<th>0 - 16 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
</table>
| ACO 101: Introduction to Computer Science (CS) | 3 | C | • An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses.  
• Math Placement Assessment score determines placement into mathematics course.  
• ASU 101 or College specific equivalent  
First Year Seminar required of all freshmen students. NEW 101 satisfies this requirement.  
• Completion of both ACO 101 and ACO 102 with a C or better fulfills the New College Language and Cultures requirement.  
• Select your Career Interest Communities and play me3@ASU.  
• Activate your Handshake account and build out your profile. |
| MAT 117: College Algebra (MA) OR MAT 170: Precalculus (MA) OR MAT 210: Brief Calculus (MA) or MAT 251: Calculus for Life Sciences (MA) OR MAT 270: Calculus with Analytic Geometry I (MA) | 3-4 | C | |
| ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition | 3 | C | |
| NEW 101: The ASU New College Experience | 1 | | |
| NEW 210: From Passion to Practice: Charting Your Path OR NEW 225: Building a Better You | 3 | C | |
| Social-Behavioral Sciences (SB) | 3 | | |
| **Term hours subtotal:** | 16-17 | | |

<table>
<thead>
<tr>
<th>Term 2</th>
<th>16 - 31 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
</table>
| ACO 102: Object-Oriented Programming (CS) | 3 | C | • Completion of both ACO 101 and ACO 102 with a C or better fulfills the New College Language and Cultures requirement.  
• Create a first draft resume.  
• Join a student club or professional organization.  
• Secure a part-time job or volunteer experience.  
• Build your professional connections - join the ASU Mentor Network. |
| MAT 210: Brief Calculus (MA) or MAT 251: Calculus for Life Sciences (MA) OR MAT 270: Calculus with Analytic Geometry I (MA) OR MAT 271: Calculus with Analytic Geometry II (MA) | 3-4 | C | |
| ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition | 3 | C | |
| NEW 210: From Passion to Practice: Charting Your Path OR NEW 225: Building a Better You | 3 | C | |
| Humanities, Arts and Design (HU) | 3 | | |
| **Complete ENG 101 OR ENG 105 OR ENG 107 course(s).** | | | |
| **Term hours subtotal:** | 15-16 | | |

<table>
<thead>
<tr>
<th>Term 3</th>
<th>31 - 47 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
</table>
| ACO 201: Data Structures and Algorithms (CS) OR ACO 240: Introduction to Programming Languages OR STP 280: Probability and Statistics for Researchers (CS) | 3 | C | • Develop your research skills.  
• Develop your professional skills.  
• Build your professional connections - join ASU Mentor Network. |
| Natural Science - Quantitative (SQ) | 4 | C | |
| Historical Awareness (H) | 3 | | |
| Literacy and Critical Inquiry (L) | 3 | C | |
| Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C) | 3 | | |
Complete First-Year Composition requirement.

Complete Mathematics (MA) requirement.

Milestone: Selection of a major.

Term hours subtotal: 16

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Notes:

- Students considering ASU majors requiring a second language may consult with an academic advisor to consider a second language course for any term.
- Students should consider completing Global, Historical, and Cultural Awareness requirements with their Social and Behavioral or Humanities and Fine Arts courses.

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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)

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Total Hours: 47
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

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General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

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First-Year Composition

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