# 2018 - 2019 Major Map

**Statistics, BS**

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

## Term 1 0 - 14 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 270: Calculus with Analytic Geometry I (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>NEW 101: The ASU New College Experience</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity in the U.S. (C)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- 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 career interest area and play me3@ASU.

## Term 2 14 - 30 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 271: Calculus with Analytic Geometry II (MA)</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Historical Awareness (H)</td>
<td>3</td>
<td></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)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 16

## Term 3 30 - 44 Credit Hours

<table>
<thead>
<tr>
<th>Course</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 272: Calculus with Analytic Geometry III (MA)</td>
<td>4</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>Natural Science - Quantitative (SQ)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- Develop your research skills.

## Term 4 44 - 60 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>STP 281: Statistical Analysis for Researchers</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

**Completion of ACO 101 and ACO 102 satisfies the New College Language and
ACO 102: Object-Oriented Programming (CS) OR Upper Division Cultural Diversity in the U.S. (C) OR Upper Division Global Awareness (G) 3 C

Natural Science - General (SG) OR Natural Science - Quantitative (SQ) 4

Complete 2 courses:
Elective 6

Term hours subtotal: 16

<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>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>MAT 343: Applied Linear Algebra</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Literacy and Critical Inquiry (L) OR IAS 300: Adult Career Development (L or SB)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Humanities, Arts and Design (HU)</td>
<td>3</td>
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<td></td>
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</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>STP 315: Statistical Computing</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>LSC 388: Research Fundamentals for the Natural Sciences (L)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Statistics Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Focus Area Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Elective OR STP 484: Internship</td>
<td>3</td>
<td></td>
<td></td>
</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

<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>STP 421: Probability</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ASB 353: Death and Dying in Cross-Cultural Perspective ((HU or SB) &amp; G) OR SOC 353: Death and Dying in Cross-Cultural Perspective ((HU or SB) &amp; G)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Statistics Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Focus Area Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
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</tbody>
</table>

Term hours subtotal: 15

<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>STP 427: Mathematical Statistics</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>STP 485: Statistics Capstone</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Statistics Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Focus Area Course</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Cultural Diversity in the U.S. (C) OR Upper Division Global Awareness (G) OR Upper Division Elective</td>
<td>3</td>
<td>C</td>
<td></td>
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</tbody>
</table>

Term hours subtotal: 15

Cultures requirement. If an upper division C or G course is taken in term 4, another upper division C or G course must be taken in term 8 to satisfy the New College Language and Cultures requirement.

- Explore an internship or IGLE international experience.

- IAS 300 (3 credit hours) is required for all transfer students.
- Develop your professional online presence.

- Focus areas are courses in related disciplines in the New College of Interdisciplinary Arts and Sciences. Please consult with your academic advisor to select the proper courses for the desired related field.
- Use Handshake to research employment opportunities.

- Focus areas are courses in related disciplines in the New College of Interdisciplinary Arts and Sciences. Please consult with your academic advisor to select the proper courses for the desired related field.
- If student completes ACO 101 and ACO 102 (which completes the New College Language and Cultures requirement), an
Focus areas courses are in related disciplines in the New College of Interdisciplinary Arts and Sciences. Please consult with your academic advisor to select the proper courses for the desired related field. Students attending graduate school are recommended to enroll in MAT 272, MAT 371, MAT 421 and MAT 450.

### Focus Area Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACO 201: Data Structures and Algorithms (CS)</td>
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<tr>
<td>ACO 320: Database Systems</td>
<td></td>
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<tr>
<td>ACO 350: Systems Programming (CS)</td>
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</tr>
<tr>
<td>CHM 113: General Chemistry I (SQ)</td>
<td></td>
</tr>
<tr>
<td>CHM 116: General Chemistry II (SQ)</td>
<td></td>
</tr>
<tr>
<td>CHM 233: General Organic Chemistry I</td>
<td></td>
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<tr>
<td>MAT 243: Discrete Mathematical Structures</td>
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<tr>
<td>MAT 300: Mathematical Structures (L)</td>
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<tr>
<td>MAT 371: Advanced Calculus I</td>
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<tr>
<td>MAT 421: Applied Computational Methods (CS)</td>
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<tr>
<td>MAT 450: Mathematical Models in Biology</td>
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<tr>
<td>MAT 472: Intermediate Real Analysis I</td>
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</tbody>
</table>

### Statistics Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>STP 450: Nonparametric Statistics</td>
<td></td>
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<tr>
<td>STP 451: Quality Improvement</td>
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</tr>
<tr>
<td>STP 452: Multivariate Statistics</td>
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<tr>
<td>STP 460: Categorical Data Analysis</td>
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</tbody>
</table>

General Studies Awareness Requirements:

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

First-Year Composition

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**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 designations listed on the major map are current for the 2018 - 2019 academic year.