











## 2022 - 2023 Major Map



### Geographic Information Science, BS

School/College: [The College of Liberal Arts and Sciences](#)  
LAGISBS



Term 1 - A 0 - 7 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	<ul style="list-style-type: none"> <li>• MAT 170 is the required math course for this major. If a student does not qualify for MAT 170 enrollment, they should enroll in MAT 117 to prepare for MAT 170.</li> <li>• ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students.</li> <li>• Select your <a href="#">career interest area</a> and play <a href="mailto:me3@asu.edu">me3@asu.edu</a>.</li> <li>• Set up your <a href="#">Handshake account</a>.</li> </ul>
 Mathematics (MA)	3	C	
ASU 101-LA: The ASU Experience	1		
Term hours subtotal:	7		
Term 1 - B 7 - 13 Credit Hours	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		<ul style="list-style-type: none"> <li>• View ASU Online first-year student registration information <a href="#">here</a>.</li> </ul>
Elective	3		
Term hours subtotal:	6		
Term 2 - A 13 - 19 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	<ul style="list-style-type: none"> <li>• Students should become actively involved with a student organization. Information on ASU student organizations sponsored by the School of Geographical Sciences and Urban Planning is available <a href="#">here</a>.</li> </ul>
 MAT 170: Precalculus (MA)	3	C	
Term hours subtotal:	6		
Term 2 - B 19 - 25 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 205: Geographic Information Science I (CS)	3	C	
Elective	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	6		
Term 3 - A 25 - 31 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 222: Programming Principles in GIS I	3	C	<ul style="list-style-type: none"> <li>• &gt;Set up your <a href="#">Handshake account</a>.</li> </ul>
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
Term hours subtotal:	6		
Term 3 - B 31 - 38 Credit Hours	Hours	Minimum Grade	Notes

Related Area Course	3	C
Natural Science - Quantitative (SQ)	4	
Complete First-Year Composition requirement.		
Complete Mathematics (MA) requirement.		
Term hours subtotal:	7	

- **Network** in your career interest area.




Term 4 - A 38 - 45 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 211: Geographic Information Science II (CS)	4	C	
Literacy and Critical Inquiry (L)	3		
Term hours subtotal:	7		



Term 4 - B 45 - 51 Credit Hours	Hours	Minimum Grade	Notes
Related Area Course	3	C	
Humanities, Arts and Design (HU)	3		
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>• Students interested in completing an internship should start investigating internship opportunities and researching potential internship sites. More information on internships is available <a href="#">here</a>.</li> </ul>

Term 5 - A 51 - 57 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 270: Statistics for Geography and Planning	3	C	
Science and Society Elective	3	C	
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>• For a full list of Science and Society courses, go <a href="#">here</a>.</li> </ul>

Term 5 - B 57 - 64 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 311: Geographic Information Science III (CS)	4	C	
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Term hours subtotal:	7		<ul style="list-style-type: none"> <li>• Develop your <b>professional online presence</b>.</li> </ul>

Term 6 - A 64 - 70 Credit Hours	Hours	Minimum Grade	Notes
Natural Science - Quantitative (SQ) OR Natural Science - General (SG)	4		
Upper Division Elective	2		
Term hours subtotal:	6		

Term 6 - B 70 - 76 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 322: Programming Principles in GIS II	3	C	
Elective	3		
 Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>• Students interested in continuing to graduate study following the completion of the undergraduate program should start investigating potential graduate programs, including admissions requirements and deadlines. Information on graduate programs offered through ASU's School of Geographical Sciences and Urban Planning is available <a href="#">here</a>.</li> </ul>

Term 7 - A 76 - 82 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 GIS 470: Advanced Statistics for Geography and Planning (CS)	3	C	

Term hours subtotal: 6

Term 7 - B 82 - 90 Credit Hours	Hours	Minimum Grade	Notes
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Upper Division Literacy and Critical Inquiry (L)

3

Complete 2 courses:

Elective

5

Term hours subtotal: 8

- Visit the [SGSUP Career Development page](#) and [Career and Professional Development Services](#) to meet with career advisors for assistance with career planning and networking.
- Students interested in entering the job market after graduation should start researching job opportunities. Information on careers in related fields is available [here](#).

Term 8 - A 90 - 96 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
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★ GIS Upper Division Elective

3

C

Upper Division Elective

3

Term hours subtotal: 6

- Complete an in person or virtual [practice interview](#).

Term 8 - B 96 - 102 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
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★ GIS Upper Division Elective

3

C

Upper Division Elective

3

Term hours subtotal: 6

Term 9 - A 102 - 108 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
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★ GIS Upper Division Elective

3

C

Upper Division Elective

3

Term hours subtotal: 6

- Make sure to review [SGSUP's Career Development Resources](#).

Term 9 - B 108 - 114 Credit Hours	Hours	Minimum Grade	Notes
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Upper Division Science and Society Elective

3

C

Upper Division Elective

3

Term hours subtotal: 6

- For more information about the Science and Society requirement, visit [this webpage](#).
- Students planning to enter the job market should apply for [full-time career opportunities](#).

Term 10 - A 114 - 120 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
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★ Upper Division GIS Applied Experience Course

3

C

Elective

3

Term hours subtotal: 6

- All students pursuing a BS or BSP degree in The College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at <https://thecollege.asu.edu/resources/science-society>. At least one of the two courses must be upper-division and students must earn a C or better in the courses. Both Science and Society courses (i.e., all six credits) may count towards any major, minor, related fields, and ASU General Studies requirements.

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

GIS Applied Experience Courses	Related Area Courses
GIS 484: Internship	CEE OR CSE OR EEE OR EGR OR FSE OR GCU OR GIS OR GPH OR IEE OR PUP Elective
GIS 498: Pro-Seminar	
GIS 499: Individualized Instruction	
GPH 492: Honors Directed Study	
GPH 493: Honors Thesis (L)	

#### 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.

Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

**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 next to courses on the major map were valid for the 2022 - 2023 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.