









## 2024 - 2025 Major Map

### Geographic Information Science, BS

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

Term 1 0 - 15 Credit Hours Critical course signified by 	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>GPH 191: Disaster Weather is highly encouraged for first-semester students, though it is not required.</li> <li>Students will select two Related Area courses from the list of subject areas below.</li> <li>Set up your <a href="#">Handshake</a> account, play <a href="mailto:me3@asu.edu">me3@asu.edu</a> and select your area of career interest.</li> </ul>
LIA 101: Student Success in The College of Liberal Arts and Sciences	1		
Related Area Course	3	C	
Mathematics (MATH)	3		
Scientific Thinking in Natural Sciences (SCIT)	4		
Elective ( GPH 191 recommended)	1		
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	15		
Term 2 15 - 30 Credit Hours Critical course signified by 	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 will select two Related Area courses from the list of subject areas below.</li> <li>Join a <a href="#">student club</a> or professional development. Information on ASU student organizations sponsored by the School of Geographical Sciences and Urban Planning is available <a href="#">here</a>.</li> <li><b>Research study abroad opportunities and global virtual internships.</b></li> </ul>
 GIS 205: Geographic Information Science I (QTRS OR CS)	3	C	
 MAT 170: Precalculus (MATH OR MA)	3	C	
Related Area Course	3	C	
Humanities, Arts and Design (HUAD)	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	15		
Term 3 30 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 GIS 211: Geographic Information Science II (QTRS OR CS)	4	C	<ul style="list-style-type: none"> <li>For a full list of Science and Society courses, go <a href="#">here</a>.</li> <li>Visit the <a href="#">SGSUP Career Development</a> page to schedule a meeting with your career advisor for assistance with career planning and networking.</li> </ul>
GIS 270: Statistics for Geography and Planning	3	C	
Science and Society Elective	3	C	
Humanities, Arts and Design (HUAD)	3		
Social and Behavioral Sciences (SOBE)	3		
Complete First-Year Composition requirement.			
Term hours subtotal:	16		
		Minimum	

Term 4 46 - 60 Credit Hours <b>Critical course signified by</b> ⚠	Hours	Grade	Notes
⚠ GIS 222: Programming Principles in GIS I	3	C	<ul style="list-style-type: none"> <li>Students interested in <b>finding an internship</b> should start investigating internship opportunities and researching potential internship sites. Students can <b>earn academic credit while completing an internship</b>.</li> </ul>
⚠ GIS 311: Geographic Information Science III (QTRS OR CS)	4	C	
Scientific Thinking in Natural Sciences (SCIT)	4		
Sustainability (SUST)	3		
Term hours subtotal:	14		

Term 5 60 - 75 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
★ GIS 322: Programming Principles in GIS II	3	C	<ul style="list-style-type: none"> <li>Attend SGSUP Career Navigator event.</li> <li>Students interested in <b>conducting supervised research</b> with a faculty member should initiate contact with faculty members who perform research in their content area of interest.</li> <li>Students interested in pursuing an accelerated master's degree in <b>urban and environmental planning</b> should initiate contact with <b>graduate advising</b>.</li> </ul>
Global Communities, Societies and Individuals (GCSI)	3		
Upper Division Elective	3		
Complete 2 courses:	6		
Elective			
Term hours subtotal:	15		

Term 6 75 - 90 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
★ GIS 470: Advanced Statistics for Geography and Planning (QTRS OR CS)	3		<ul style="list-style-type: none"> <li>Visit the <b>SGSUP Career Development page</b> to schedule a meeting with your career advisor for resume review, mock interviewing, or advisement on job searching.</li> <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 the graduate programs offered through the School of Geographical Sciences and Urban Planning is available <a href="#">here</a>.</li> </ul>
★ GIS Upper Division Elective	3	C	
Upper Division Elective OR GIS 484: Internship	3		
Complete 2 courses:	6		
Upper Division Elective			
Term hours subtotal:	15		

Term 7 90 - 106 Credit Hours <b>Necessary course signified by</b> ★	Hours	Minimum Grade	Notes
★ GIS Upper Division Elective	3	C	<ul style="list-style-type: none"> <li>For more information on the Science and Society requirement, visit <a href="#">this webpage</a>.</li> <li>Students interested in entering the job market after graduation should be reviewing the SGSUP <b>employee opportunities</b> site.</li> <li>Use Handshake to search for <b>employment opportunities</b>.</li> </ul>
Upper Division Science and Society Elective	3	C	
American Institutions (AMIT)	3		
Upper Division Elective	3		
Elective	4		
Term hours subtotal:	16		

		Minimum	
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Term 8 106 - 120 Credit Hours Necessary course signified by ★	Hours	Grade	Notes
★ Upper Division GIS Applied Experience Course	3	C	<ul style="list-style-type: none"> <li>• Use <b>SGSUP Employment Opportunities</b> site to find full-time or part-time employment opportunities.</li> <li>• Don't forget to <b>apply for graduation!</b></li> <li>• Stay connected with the School of Geographical Sciences and Urban Planning by connecting on <b>LinkedIn</b>.</li> </ul>
★ GIS Upper Division Elective	3	C	
Governance and Civic Engagement (CIVI)	3		
Complete 2 courses: Upper Division Elective	5		
Term hours subtotal:	14		

- 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)	

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

#### Notes:

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.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.