

















2024 - 2025 Major Map

Geographic Information Science, BS

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

Term 1 - A 0 - 7 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"> 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. ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. Set up your Handshake account, play me3@asu.edu, and select your career interest area.
ASU 101-LA: The ASU Experience	1		
Mathematics (MATH)	3	C	
Term hours subtotal:	7		
Term 1 - B 7 - 13 Credit Hours	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HUAD)	3		<ul style="list-style-type: none"> View ASU Online first-year student registration information here.
Elective	3		
Term hours subtotal:	6		
Term 2 - A 13 - 19 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"> Join a student club or professional organization. Information on ASU student organizations sponsored by the School of Geographical Sciences and Urban Planning is available here.
 MAT 170: Precalculus (MATH OR MA)	3	C	
Term hours subtotal:	6		
Term 2 - B 19 - 25 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 GIS 205: Geographic Information Science I (QTRS OR 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 Critical course signified by 	Hours	Minimum Grade	Notes
 GIS 222: Programming Principles in GIS I	3	C	<ul style="list-style-type: none"> Visit the SGSUP Career Development page to schedule a meeting with your career advisor for assistance with career planning and networking.
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	6		
		Minimum Grade	

Term 3 - B 31 - 38 Credit Hours	Hours	Grade	Notes
Related Area Course	3	C	
Scientific Thinking in Natural Sciences (SCIT)	4		
Complete First-Year Composition requirement.			
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	7		
Term 4 - A 38 - 45 Credit Hours  Critical course signified by	Hours	Minimum Grade	Notes
 GIS 211: Geographic Information Science II (QTRS OR CS)	4	C	
Social and Behavioral Sciences (SOBE)	3		
Term hours subtotal:	7		
Term 4 - B 45 - 51 Credit Hours	Hours	Minimum Grade	Notes
Related Area Course	3	C	
Sustainability (SUST)	3		
Term hours subtotal:	6		<ul style="list-style-type: none"> • Create your professional online presence on LinkedIn.
Term 5 - A 51 - 57 Credit Hours  Necessary course signified by	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"> • For a full list of Science and Society courses, go here. • Students interested in conducting supervised research with a faculty member should initiate contact with faculty members who perform research in their content area of interest.
Term 5 - B 57 - 64 Credit Hours  Necessary course signified by	Hours	Minimum Grade	Notes
 GIS 311: Geographic Information Science III (QTRS OR CS)	4	C	
Global Communities, Societies and Individuals (GCSI)	3		
Term hours subtotal:	7		<ul style="list-style-type: none"> • 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 here.
Term 6 - A 64 - 70 Credit Hours	Hours	Minimum Grade	Notes
Scientific Thinking in Natural Sciences (SCIT)	4		
Upper Division Elective	2		
Term hours subtotal:	6		<ul style="list-style-type: none"> • Visit the SGSUP Career Development page to schedule a meeting with your career advisor for resume review, mock interviewing, or advisement on job searching.
Term 6 - B 70 - 76 Credit Hours  Necessary course signified by	Hours	Minimum Grade	Notes

★ GIS 322: Programming Principles in GIS II	3	C
Upper Division Elective	3	
Term hours subtotal:	6	

- Search available internships on the **SGSUP Internship Opportunities** site.

Term 7 - A 76 - 82 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ GIS 470: Advanced Statistics for Geography and Planning (QTRS OR CS)	3	C
Governance and Civic Engagement (CIVI)	3	
Term hours subtotal:	6	

- Students interested in entering the job market after graduation should be reviewing the **SGSUP employment opportunities** site.

Term 7 - B 82 - 90 Credit Hours	Hours	Minimum Grade	Notes
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American Institutions (AMIT)	3	
Complete 2 courses:	5	
Elective		
Term hours subtotal:	8	

- Use Handshake to search for **employment opportunities**.

Term 8 - A 90 - 96 Credit Hours Necessary course signified by ★	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 Necessary course signified by ★	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 Necessary course signified by ★	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 Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ Upper Division GIS Applied Experience Course	3	C
Upper Division Elective	3	
Term hours subtotal:	6	

- Students interested in **finding an internship** should start investigating internship opportunities and researching potential internship sites. Students can **earn academic credit** while completing an internship.
- Don't forget to **apply for graduation**!

- Stay connected with the School of Geographical Sciences and Urban Planning by connecting on [LinkedIn](#).

- 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
GIS 498: Pro-Seminar	OR GCU OR GIS OR GPH OR IEE OR
GIS 499: Individualized Instruction	PUP Elective
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.