

2024 - 2025 Major Map

Geography (Meteorology-Climatology), BS

School/College: The College of Liberal Arts and Sciences
LAGCUMBS

Term 1 0 - 15 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
GIS 205: Geographic Information Science I (QTRS OR CS) OR ⚠ GPH 111: Introduction to Physical Geography (SCIT OR SQ) AND GPH 112: Introduction to Physical Geography Lab (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. GPH 191 is also recommended. Set up your Handshake account, play me3 and select your career area of interest. Contact an academic advisor to add the Atmospheric Sciences certificate in order to obtain National Weather Service certification. MAT 270 is the first required math course for this major. If a student does not qualify for MAT 270 enrollment, they should enroll in the prerequisite MAT 170 in Term 1. Please contact an advisor if you have questions.
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	
LIA 101: Student Success in The College of Liberal Arts and Sciences	1		
Humanities, Arts and Design (HUAD)	3		
Social and Behavioral Sciences (SOBE)	3		
Elective (GPH 191 recommended)	1		
Term hours subtotal:	15		
Term 2 15 - 31 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
GIS 205: Geographic Information Science I (QTRS OR CS) OR ⚠ GPH 111: Introduction to Physical Geography (SCIT OR SQ) AND GPH 112: Introduction to Physical Geography Lab (SCIT OR SQ)	3	C	<ul style="list-style-type: none"> GPH 213 is recommended for the Science and Society requirement. For a full list of Science and Society courses, go here. 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. Research study abroad opportunities and global virtual internships.
⚠ MAT 270: Calculus with Analytic Geometry I (MATH OR MA)	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	
Science and Society Elective	3	C	
Humanities, Arts and Design (HUAD)	3		
⚠ Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	16		
Term 3 31 - 46 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ GCU 102: Introduction to Human Geography (GCSI OR SB & G)	3	C	<ul style="list-style-type: none"> GPH 212 and GPH 214 are offered every Fall semester. If your Term 3 is in a Spring semester, make sure to take GPH 212/214 in Term 2 or Term 4.
⚠ GPH 212: Introduction to Meteorology (SCIT OR SQ)	3	C	
⚠ GPH 214: Introduction to Meteorology Laboratory (SCIT OR SQ)	1	C	

❗ MAT 271: Calculus with Analytic Geometry II (MATH OR MA)	4	C
❗ PHY 121: University Physics I: Mechanics (SCIT OR SQ) AND PHY 122: University Physics Laboratory I (SCIT OR SQ)	4	C
❗ Complete First-Year Composition requirement.		
Complete Mathematics (MATH) requirement.		
Term hours subtotal:	15	

- Students should meet with their academic advisor to discuss the requirements to obtain National Weather Service certification.

Term 4 46 - 60 Credit Hours Critical course signified by ❗	Hours	Minimum Grade	Notes
❗ MAT 272: Calculus with Analytic Geometry III (MATH OR MA)	4	C	
PHY 131: University Physics II: Electricity and Magnetism (SCIT ❗ OR SQ) AND PHY 132: University Physics Laboratory II (SCIT OR SQ)	4	C	
GIS 270: Statistics for Geography and Planning	3	C	
Sustainability (SUST)	3		
Term hours subtotal:	14		

- Visit the [SGSUP Career Development page](#) and [Career and Professional Development Services](#) to meet with career advisors for assistance with career planning and networking.
- Create your professional online presence on [LinkedIn](#).

Term 5 60 - 73 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ GPH 409: Synoptic Meteorology I	4	C	
Upper Division Science and Society Elective	3	C	
GIS Upper Division Elective	3	C	
American Institutions (AMIT)	3		
Term hours subtotal:	13		

- GPH 409 is offered once every two years--during the Fall semester of odd-numbered years (so it may be a Term 7 course)
- Students interested in completing an internship should start investigating internship opportunities. Information on internships is available [here](#).
- Students interested in conducting supervised research should initiate contact with faculty members who perform research in their content area of interest. More information is available [here](#).
- For more information on the Science and Society requirement, go [here](#).
- Students interested in pursuing an [accelerated master's degree](#) in geography or urban and environmental planning should contact [graduate advising](#).

Term 6 73 - 89 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ GPH 410: Synoptic Meteorology II	4	C	
★ GPH 412: Physical Meteorology	3	C	
Governance and Civic Engagement (CIVI)	3		
Complete 2 courses: Upper Division Elective	6		
Term hours subtotal:	16		

- GPH 410 is offered once every two years--during the Spring semester of even-numbered years (so it may be a Term 8 course).
- GPH 412 is offered once every two years--during the Spring semester of even-numbered years (so it may be a Term 8 course).
- 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 7 89 - 104 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ GPH 474: Dynamic Meteorology I	3	C	<ul style="list-style-type: none"> GPH 474 is offered once every two years--during the Fall semester of even-numbered years (so it may be a Term 5 course). Students interested in entering the job market after graduation should start researching job opportunities. Information on careers in related fields is available here and here. Students should verify with their academic advisor that they will meet all requirements necessary to obtain National Weather Service certification after graduation.
Upper Division Elective OR GCU 484: Internship OR GIS 484: Internship OR GPH 484: Internship	3		
Complete 3 courses:	9		
Elective			
Term hours subtotal:	15		

Term 8 104 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ GCU 496: Geographic Research Methods (L)	3	C	<ul style="list-style-type: none"> GPH 475 is offered once every two years--during the Spring semester of odd-numbered years (so it may be a Term 6 course). Don't forget to apply for graduation ! Stay connected with ASU School of Geographical Sciences and Urban Planning by connecting on LinkedIn.
★ GPH 475: Dynamic Meteorology II	3	C	
Complete 3 courses:	10		
Upper Division Elective			
Term hours subtotal:	16		

- 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)

- 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.