

Geography (Meteorology-Climatology), BS

LAGCUMBS

Do you know, from a technical perspective, why storms, monsoons and haboobs build on the horizon? When you better understand climate change, you gain skills for an impactful career as a meteorologist or climatologist.


Program description

The meteorology-climatology concentration under the BS program in geography is designed to meet the requirements for certification as a meteorologist by the National Weather Service. It covers dynamic as well as synoptic meteorology.

Students gain a focused understanding of weather, climate and the various related methods of measurement and instrumentation. Required courses include atmospheric physics, operational weather forecasting, three semesters of calculus and two semesters of calculus-based physics.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit [The College's website](#) for more information and requirements.

At a glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe](#)
- **Second language requirement:** No
- **First required math course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math intensity:** Substantial 

Required courses (Major Map)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated program options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an [accelerated bachelor's plus master's degree](#) with:

[Geography, MA](#)

[Urban and Environmental Planning, MUEP](#)

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

Admission requirements

General university admission requirements:

All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

Transfer admission requirements:

Transfer students must have a minimum cumulative GPA of 3.00 from a transfer institution.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

A current ASU student has no additional requirements for changing majors.

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

Transfer options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU®](#) to outline a list of recommended courses to take prior to transfer.

ASU has [transfer partnerships](#) in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Global opportunities

Global experience

Students deepen their understanding of cultural traditions in the human experience of place when studying abroad. With more than 300 [Global Education programs](#) available around the world, students are able to tailor their experience to their specific interests and skill sets and gain hands-on experience in diverse cultures and traditions. Students' resumes are enhanced with the heightened skills in cultural competency, communication and critical thinking acquired through study abroad.

Career opportunities

Program graduates have found employment with:

- airlines
- energy power companies
- government agencies
- military (meteorology and pilot training)
- National Weather Service

This program also provides suitable preparation for graduate study in either meteorology or climatology.

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
Air Traffic Controller	1.4%	\$132,250
Climate Change Analyst ☀️	6.1%	\$76,480
Environmental Analyst	4.1%	\$64,460

<u>Environmental Compliance Inspector</u> ☀	4.6%	\$71,690
<u>Environmental Restoration Planner</u> ☀	6.1%	\$76,480
<u>Geographic Information Systems Technician (GIS Technician)</u> ☀	9.7%	\$98,740
<u>Hydrologist</u>	1.5%	\$85,990
<u>Meteorologist</u>	4.4%	\$83,780
<u>News Reporter</u>		\$55,960
<u>Wind Energy Operations Manager</u>	3.3%	\$128,620

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

☀ Bright Outlook

Contact information

[Schedule an advisor appointment](#)

[School of Geographical Sciences and Urban Planning](#) | COOR 5681

SGSUP.advising@asu.edu | 480-965-7533