Geography (Meteorology-Climatology), BS

LAGCUMBS

You can be a forecaster for the National Weather Service or similar organizations. In this technical major, you learn the numerical calculation of weather through fundamental mathematical equations and the daily operations skills critical for successful employment as a meteorologist.

Program Description

The meteorology-climatology concentration under the BS 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.

Required courses include atmospheric physics, operational weather forecasting, three semesters of calculus, and two semesters of calculus-based physics.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math Intensity:** Substantial

Required Courses (Major Map)

[2020 - 2021 Major Map](#)
[Concurrent Option](#)
[Major Map (Archives)](#)
Concurrent Program Options

This degree is also offered as concurrent degree program with:

Journalism and Mass Communication, BA

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 and master's degree with:

Geography, MA

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments to apply.

Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements.

Additional Requirements:

Concurrent degree admission requirements:

Freshman applicants must meet all of the following standards:

1. 3.75 minimum ABOR GPA
2. no English competency deficiencies
3. 1040 SAT Reasoning or 22 ACT score

Transfer Admission Requirements:

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

Change of Major Requirements

A current ASU student has no additional requirements for changing majors.
ASU students who would like to change their majors to the concurrent program with journalism and mass communication must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in 12 or more credit hours of ASU courses that can be used to satisfy the Cronkite School’s nonelective General Studies requirements.

Students should refer to https://changingmajors.asu.edu/request 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 the Transfer Map search 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 help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

**Global Opportunities**

**Global Experience**

Student deepen their understanding of climate diversity around the globe through studying abroad. With over 250 programs available, study abroad allows students to tailor their experience to their unique interests and skillsets and to gain hands-on experience in diverse landscapes and cultures. Students enhance their resumes to stand out in a competitive field with heightened cultural competency, communication and critical thinking skills achieved from studying abroad. https://mystudyabroad.asu.edu/

**Career Opportunities**

Students successfully completing the program 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.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Change Analyst</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Protection Specialist</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Restoration Planner</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Geographic Information Systems Analyst (GIS Analyst)</td>
<td>6.7%</td>
<td>$76,860</td>
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<tr>
<td>Hydrogeologist</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Hydrologist</td>
<td>9.9%</td>
<td>$79,990</td>
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<tr>
<td>Meteorologist</td>
<td>12.0%</td>
<td>$92,070</td>
</tr>
<tr>
<td>Soil Conservationist</td>
<td>6.3%</td>
<td>$61,480</td>
</tr>
<tr>
<td>Solar Energy Systems Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Wind Energy Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
</tbody>
</table>

* 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  🌿 Green Occupation

Contact Information

Schedule an advisor appointment
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