Geography (Meteorology-Climatology), BS

Do you get excited when storms build on the horizon? Are you intrigued by weather phenomena and how they happen? This technical program helps you better understand everything from local storms to climate change and prepares you 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. https://thecollege.asu.edu/concurrent-and-second-baccalaureate-degrees

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe

- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
Required Courses (Major Map)

2022 - 2023 Major Map
Major Map (Archives)

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 and master's degree with:

Geography, MA
Urban and Environmental Planning, MUEP

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

Change of Major Requirements

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

Students should refer to https://changemajor.apps.asu.edu 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. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/MyPath2ASU.

Global Opportunities

Global Experience
Students deepen their understanding of climate diversity around the globe through study abroad. With over 250 programs available, study abroad allows students to tailor their experience to their unique interests and skill sets and to gain hands-on experience in diverse landscapes and cultures. Students' resumes are enhanced with the heightened cultural competency, communication and critical thinking skills they acquire when studying abroad, enabling them to stand out in a competitive field.

https://goglobal.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>7.8%</td>
<td>$73,230</td>
</tr>
<tr>
<td>Data Scientist</td>
<td>not available</td>
<td></td>
</tr>
<tr>
<td>Environmental Analyst</td>
<td>5.1%</td>
<td>$64,020</td>
</tr>
<tr>
<td>Profession</td>
<td>Growth Rate</td>
<td>Average Salary</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Environmental Compliance Inspector</td>
<td>4.6%</td>
<td>$71,100</td>
</tr>
<tr>
<td>Environmental Restoration Planner</td>
<td>7.8%</td>
<td>$73,230</td>
</tr>
<tr>
<td>Geographic Information Systems Technician (GIS Technician)</td>
<td>5.7%</td>
<td>$92,870</td>
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<tr>
<td>Geology Professor</td>
<td>1.9%</td>
<td>$94,520</td>
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<tr>
<td>Hydrologist</td>
<td>5.3%</td>
<td>$84,040</td>
</tr>
<tr>
<td>Meteorologist</td>
<td>6.4%</td>
<td>$99,740</td>
</tr>
<tr>
<td>Wind Energy Operations Manager</td>
<td></td>
<td>not available</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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