The meteorology-climatology concentration in geography prepares students for work and employment as a forecaster for the National Weather Service or similar organizations. This technical major stresses both the numerical calculation of weather through fundamental mathematical equations and the operational (daily) forecasting 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
- two semesters of calculus-based physics

At a Glance

- College/School: College of Liberal Arts and Sciences
- Location: Tempe campus
- Additional Program Fee: No
- Second Language Requirement: No
- First Required Math Course: MAT 170 - Precalculus
- Math Intensity: Substantial
Required Courses (Major Map)

2018 - 2019 Major Map
Concurrent Option
Major Map (Archives)

Concurrent Degrees

This degree is also offered as concurrent degree program with:
Journalism and Mass Communication, BA

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.
Freshman | Transfer | International | Readmission

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. Students should refer to https://students.asu.edu/changingmajors for information about how to change a major to this program.
ASU students who would like to change their majors to the concurrent program with journalism and mass communication must have at least a 3.00 cumulative GPA in 12 or more credit hours of ASU courses that can be used to satisfy the Cronkite School's nonelective General Studies requirements.

**Transfer Agreements**

ASU has partnered with colleges and universities in Arizona, California, Illinois and Washington to provide transfer curriculum pathways. Students should select their current institution to see if there is a partnership agreement between the institution and ASU for this degree program. Students who do not see their state or institution listed should check back as ASU is always working on creating new partnerships.

**Transfer from a Maricopa Community College in Arizona**

- Chandler-Gilbert Community College
- Estrella Mountain Community College
- GateWay Community College
- Glendale Community College
- Mesa Community College
- Paradise Valley Community College
- Phoenix College
- Rio Salado College
- Scottsdale Community College
- South Mountain Community College

**Transfer from an Arizona Community College**

- Arizona Western College
- Central Arizona College
- Cochise College
- Coconino Community College
- Dine College
- Eastern Arizona College
- Gila Community College
- Mohave Community College
- Northland Pioneer College
- Pima Community College
- Tohono O'odham Community College
- Yavapai College

**Transfer from another state**

- California
- Illinois
- Washington
- Another state
Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. 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>Biofuel Development Manager 🌿</td>
<td>5.5%</td>
<td>$137,720</td>
</tr>
<tr>
<td>Cartographer (Map Maker) 🌼</td>
<td>19.4%</td>
<td>$63,990</td>
</tr>
<tr>
<td>Climate Change Analyst 🌿🌼</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Compliance Manager 🌿</td>
<td>8.0%</td>
<td>$105,610</td>
</tr>
<tr>
<td>Education Professor 🌼</td>
<td>10.3%</td>
<td>$64,020</td>
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<tr>
<td>Electrical Engineering Professor 🌼</td>
<td>14.6%</td>
<td>$98,360</td>
</tr>
<tr>
<td>Engineering Manager 🌿</td>
<td>5.5%</td>
<td>$137,720</td>
</tr>
<tr>
<td>Environmental Protection Specialist 🌿🌼</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Salary</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-------------</td>
<td>------------</td>
</tr>
<tr>
<td>Environmental Restoration Planner</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Sciences Professor</td>
<td>9.6%</td>
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<tr>
<td>Farm Manager</td>
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<tr>
<td>Forestry Professor</td>
<td>7.8%</td>
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<td>Geographic Information Systems Analyst (GIS Analyst)</td>
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<td>Geography Professor</td>
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<td>Geology Professor</td>
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<td>Health Sciences Manager</td>
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<td>High School Teacher</td>
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<tr>
<td>Hydrogeologist</td>
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<tr>
<td>Hydrologist</td>
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<tr>
<td>Industrial Ecologist</td>
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<tr>
<td>Meteorologist</td>
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<tr>
<td>Middle School Teacher</td>
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<tr>
<td>Military Officer</td>
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<td>Regulatory Affairs Manager</td>
<td>8.0%</td>
<td>$105,610</td>
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<tr>
<td>Soil Conservationian</td>
<td>6.3%</td>
<td>$61,480</td>
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<tr>
<td>Solar Energy Systems Engineer</td>
<td>6.4%</td>
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<td>Supply Chain Manager</td>
<td>8.0%</td>
<td>$105,610</td>
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<tr>
<td>Transportation Dispatcher</td>
<td>6.7%</td>
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<tr>
<td>Validation Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Warehouse Manager</td>
<td>6.7%</td>
<td>$92,460</td>
</tr>
<tr>
<td>Wind Energy Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Wind Energy Project Manager</td>
<td>8.0%</td>
<td>$105,610</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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