Geographic Information Science, BS

Geographic information science is being used to solve some of the most pressing challenges facing our world. In this program, you'll learn skills that allow you to understand the increasingly important concept of location in issues facing our global society.

Program Description

Students in the BS program in geographic information science begin their study by gaining a strong foundational understanding of geographic information systems, statistical analysis and computer programming. Students expand on this foundation through upper-division coursework in the major that enables the pursuit of deeper and more focused understanding of the application of geographic information science technologies to complex environmental and societal issues.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus or online, ASU Local@Los Angeles
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 170 - Precalculus
- **Math Intensity:** Moderate

Required Courses (Major Map)

- 2021 - 2022 Major Map (On-campus)
- 2021 - 2022 Major Map (Online)
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:

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.

Freshman | Transfer | International | Readmission

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.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

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 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
Students have the opportunity to apply their knowledge of geographic information science in a new and different setting through study abroad. Students can gain a deeper understanding of the complex societal and environmental issues that influence the uses of GIS while enhancing their resumes with heightened skills in cultural competency, communication and critical thinking. [https://goglobal.asu.edu/](https://goglobal.asu.edu/)

**Career Opportunities**

Graduates in geographic information science pursue career opportunities in both the private and public sectors. Some of the career opportunities for graduates of the Bachelor of Science program in geographic information science include:

- cartographers and photogrammetrists
- geographic information system technicians
- geospatial information scientists and technologists
- location analysts
- mapping technicians
- remote sensing scientists and technologists

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>Cartographer (Map Maker)</td>
<td>4.5%</td>
<td>$68,380</td>
</tr>
<tr>
<td>Computer Programmer</td>
<td></td>
<td>$89,190</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>15.4%</td>
<td>$126,830</td>
</tr>
<tr>
<td>Geographic Information Systems Analyst (GIS Analyst)</td>
<td></td>
<td>$85,430</td>
</tr>
<tr>
<td>Geographic Information Systems Technician (GIS Technician)</td>
<td>5.7%</td>
<td>$92,870</td>
</tr>
<tr>
<td>Geospatial Intelligence Analyst</td>
<td></td>
<td>$107,210</td>
</tr>
<tr>
<td>IP/Mosaic Technician</td>
<td>4.7%</td>
<td>$52,460</td>
</tr>
<tr>
<td>Information Technology Manager (IT Manager)</td>
<td>10.4%</td>
<td>$151,150</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
School of Geographical Sciences and Urban Planning | COOR 5681
SGSUP.advising@asu.edu | 480-965-7533