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 will allow you to understand the increasingly important concept of location --- the "where" dimension of issues facing our increasingly global society.

Program Description

Students in the geographic information science BS program begin their study by gaining strong foundational understanding of geographic information systems, statistical analysis, and computer programming. Students expand on this foundation through upper-division major coursework 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
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 117 - College Algebra
- **Math Intensity:** Moderate

Required Courses (Major Map)

2019 - 2020 Major Map (On-campus)
2019 - 2020 Major Map (Online)
Major Map (Archives)
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://changingmajors.asu.edu/request 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 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

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

Graduates in geographic information science pursue career opportunities in both the private and public sectors. Some of the career opportunities for graduates of the geographic information science BS program 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>19.4%</td>
<td>$63,990</td>
</tr>
<tr>
<td>Computer Programmer</td>
<td></td>
<td>$82,240</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>19.2%</td>
<td>$114,520</td>
</tr>
<tr>
<td>Geographic Information Systems Analyst (GIS Analyst)</td>
<td>6.7%</td>
<td>$76,860</td>
</tr>
<tr>
<td>Geographic Information Systems Technician (GIS Technician)</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Geospatial Information Technologists</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Geospatial Intelligence Analyst</td>
<td>7.2%</td>
<td>$103,990</td>
</tr>
<tr>
<td>IP/Mosaic Technician</td>
<td>9.7%</td>
<td>$48,090</td>
</tr>
<tr>
<td>Information Technology Manager (IT Manager)</td>
<td>12.0%</td>
<td>$139,220</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 5671
SGSUP.advising@asu.edu | 480-965-7533