Do you want to be at the edge of exploration, making new discoveries about our planet, our solar system and our universe? Our astrophysics students are discovering new planets, exploring cosmology, designing and building space-flight hardware, and engineering new instruments for telescopes and satellites.

**Program Description**

The BS in earth and space exploration with a concentration in astrophysics is designed to offer students a fundamental grounding in astronomy and astrophysics, with exposure to the related fields of geology, planetary science and engineering. Students emerge from this program with the skills to pursue a career in astrophysics, physics or related fields.

The rigorous coursework includes a combination of physics courses taught in the School of Earth and Space Exploration and the Department of Physics. The tools of astronomical discovery are increasingly dependent on technological advances so students will be exposed to engineering principles. Through the capstone project in the senior year, students gain valuable experience in translating science drivers into engineering solutions.

**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.
  
  or MAT 265 Calculus for Engineers I
Required Courses (Major Map)

2019 - 2020 Major Map
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://students.asu.edu/changingmajors for information about how to change a major to this program.

Transfer Options

ASU is committed to helping you thrive by offering tools that allow you to personalize your 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. Learn more about these programs by visiting the Admissions site.

Global Opportunities

PLuS Alliance
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/

Global Degree

Career Opportunities

Career opportunities include but are not limited to:

- aerospace engineer
- astrobiologist
- astronomer
- computer programmer
- data analyst
- instrumentation specialist
- planetary scientist
- science policy intern
- science writer
- teacher
- telescope operator

Career settings include:

- federal government
- K-12 schools
- manufacturing
- museums
- NASA facilities
- national laboratories
- NSF facilities
- observatories
- planetariums
- publishing
- space industries
- universities and colleges

Some of the listed careers may require advanced degrees or additional certifications. This program also provides suitable preparation for graduate study.
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>Aerospace Engineer 🌿</td>
<td>6.1%</td>
<td>$113,030</td>
</tr>
<tr>
<td>Astronomer ⭐</td>
<td>10.0%</td>
<td>$100,590</td>
</tr>
<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>Geology Professor ⚠</td>
<td>9.5%</td>
<td>$87,380</td>
</tr>
<tr>
<td>Health Sciences Manager 🌿⭐</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Physicist ⭐</td>
<td>14.5%</td>
<td>$118,830</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 Earth and Space Exploration | ISTB4 795  
sese-advising@asu.edu | 480-965-5081