Arizona State University (Tempe campus)

Earth and Space Exploration (Astrobiology and Biogeosciences), BS

Study details

Course type: Bachelor's degree
Degree: Earth and Space Exploration (Astrobiology and Biogeosciences), BS LASESABBS
Study mode: Full time
Duration: 48 Month

Cost of study

Cost : 35 430 USD
Reg. fee : 85 USD
Scolarship :
Insurance : 2 765 USD

Intake/s

Jan/May/Aug

Requirements

Academic requirements

First-year students must:

- Have a 3.00 grade point average (GPA) (a "B" or better where "A"=4.00) from a secondary school. Some ASU programs may have higher admission or English proficiency requirements and may consider a minimum ACT or SAT score.
- Must have three years of high school coursework. (If you are currently in high school, ASU needs to see 9–11 grade coursework. If you have completed high school, ASU needs to see 10–12 grade coursework.)
- Must have and present a completed high school diploma or certificate.

Conditional admission

ASU may offer conditional undergraduate admission to international applicants to an on-campus program who meet the academic (aptitude) requirements but who are not proficient in English. This offer of conditional admission will give you time to improve your English proficiency before you start classes at ASU. Your conditional admission offer is good for up to three semesters, during which time you must meet one of these requirements to begin your ASU experience.

Competency requirements

International students who completed high school outside the U.S. are required to meet the following competency requirements:

- Math: four years (algebra I, geometry, algebra II and one course requiring algebra II as a prerequisite).
- Laboratory science: three years total (one year each from any of the following areas are accepted: biology, chemistry, earth science, integrated sciences and physics).

Provide evidence of English language proficiency (TOEFL 61)

Accommodation

Provided by partner agencies

Speciality
STEM-OPT for international students on F-1 visas

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should review ASU degrees that qualify for the STEM-OPT extension at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

Additional information
Program description

Astrobiology and biogeosciences are closely related: biogeosciences inform the exploration for life on other worlds, while astrobiology motivates exploration of life's limits on Earth.

The astrobiology and biogeosciences concentration in the BS program in Earth and space exploration teaches students a strong and rigorous foundation in geology, biology, chemistry and astronomy. Participants develop the systems-thinking perspective needed to:

- contribute to the search for life on other planets
- study how the integrated Earth-life system evolves and responds to global environmental challenges
- understand the complex and evolving diversity and distribution of life on Earth

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 plus master's degree with:

- Astrophysics and Astronomy, MS
- Exploration Systems Design (Instrumentation), MS

- Exploration Systems Design (Sensor Networks), MS
- Exploration Systems Design (Systems Engineering), MS
- Exploration Systems Design, MS

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master’s during the junior year of their bachelor's degree program.

Global opportunities
Global experience

Space exploration is an international endeavor, and an international experience provides students opportunities for cross-cultural engagement and improvement of language and communication skills. Global Education programs allow students to take relevant classes while living in another country. Each of the more than 300 Global Education program options provide an opportunity for students to develop a valuable skill set that can give them an advantage in their career and personal enrichment. Whether in a foreign country, in the U.S. or online, Global Education programs encourage students to build communication skills, challenge them to adapt and persevere, expose them to differences across the world and increase their ability to work with diverse groups of people.

Career opportunities

Graduates of the astrobiology and biogeosciences program are well prepared for graduate studies in two rapidly advancing fields. They are also well suited for careers in earth sciences, environmental sciences and space sciences. More broadly, the program provides training across a range of sciences and a "systems thinking" perspective, giving students a strong background for careers in biomedical or sustainability areas, as well as science education, writing or policy.

Career opportunities include:

- astronomer
- data analyst or scientist
- ecologist or natural resource manager
- environmental monitoring and exposure assessor
- environmental or sustainability consultant
- environmental protection or remediation scientist, consultant or manager
- geoscientist
- hydrogeologist
- science policy consultant
- science teacher

Career settings include:

- educational institutions
- environmental consulting firms
- environmental engineering firms
- federal, state and local government agencies
- museums or planetariums
- NASA and NSF facilities
- national laboratories

- nonprofit organizations
- observatories
- space industry organizations

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