Sustainability, BS

A bachelor's degree program for students who want a better world, this program prepares students to lead the way with world-class faculty, resources and opportunities --- including study abroad experiences and internships. Join a vibrant community of like-minded students at the nation's first School of Sustainability.

Program Description

Students in ASU's School of Sustainability are rethinking and reinventing the future of a world at risk. The school's programs encourage experiential learning, study abroad (https://schoolofsustainability.asu.edu/student-life/study-abroad), research with faculty (https://schoolofsustainability.asu.edu/undergraduate-research), community engagement and leadership development (https://schoolofsustainability.asu.edu/student-life/campus-experience). The knowledge and solutions that are created today will shape the social and environmental quality of life for future generations. Students select from one of three tracks: economics of sustainability; sustainable ecosystems; and sustainable energy, materials and technology.

The School of Sustainability offers two degrees in sustainability: a BA and a BS. Both programs introduce students to the concept of sustainability in the context of real-world problems and focus on developing practical solutions to some of the most pressing environmental, economic and social challenges of sustainability. The curriculum trains students to approach challenges with consideration of complex adaptive systems and resilience; interconnections and cascading effects between scales; management of trade-offs; stakeholder engagement; future visioning and scenario typologies for transitioning social-ecological systems; and other cutting-edge frameworks.

The Bachelor of Science is geared toward students interested in the more quantitative aspects of sustainability, such as energy, economics and ecology. Disciplinary perspectives included in the core courses of the degree tracks include ecology, engineering, environmental economics, environmental science, conservation biology, hydrology, physical geography, earth-systems management and other disciplines relevant to the sustainability of environmental resources and social institutions.

Students in the School of Sustainability not only gain an understanding of the field of sustainability and strong problem-solving, systems-thinking, stakeholder engagement and future scenario-building skills, they
also develop strength in a more traditional discipline of their choice, in addition to their track. Students apply the skills from their core Bachelor of Science classes and knowledge from their track and related discipline courses in two required capstone experiences in the senior year.

Capstone requirements consist of an internship with a sustainability-focused organization and a workshop course in which students work together as a team to develop solutions to real sustainability problems. These workshops are great resume builders as they usually include real work for actual organizations such as city governments, sports organizations, nonprofits, local and global companies, local schools, and ASU Facilities or Sustainability Practices. Students also are offered workshops on making documentary films, redesigning buildings and downtown areas, and other engaging projects.

Students graduate with a portfolio of accomplishments and skills. They also have the opportunity to participate in study abroad programs, student organizations (https://schoolofsustainability.asu.edu/student-life/engagement-opportunities), professional development workshops, and hands-on initiatives such as ProMod (https://schoolofsustainability.asu.edu/student-life/student-sustainability-research/promod).

At a Glance

- **College/School:** School of Sustainability
- **Location:** Polytechnic campus, Tempe campus or online
- **Additional Program Fee:** No
- **Second Language Requirement:** Yes
- **First Required Math Course:** SOS 101 - Intro Appl Math Life & Soc Sci
- **Math Intensity:** Moderate

### Required Courses (Major Map)

2018 - 2019 Major Map (On-campus)
2018 - 2019 Major Map (Online)
Major Map (Archives)

### Accelerated Degrees

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:
Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be 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

**Additional Requirements:**

The School of Sustainability has higher admission requirements. Applicants must select a second choice for their major on the application. Students who are not admitted to the School of Sustainability and who did not select a second major or are not admissible to the second major choice will be admitted to the exploratory social and behavioral sciences program within the College of Integrative Sciences and Arts. Students with more than 45 transfer hours who are not admissible to the College of Integrative Sciences and Arts will be contacted to select an appropriate major.

Freshman applicants must meet the following standards:

- Minimum cumulative high school GPA of 3.00 (4.00 = "A") in competency courses AND
- rank in the top 25 percent of their high school graduating class OR
- an SAT combined score of
  - 1040 or higher (if taken prior to March 2016) or
  - 1120 or higher (if taken in or after March 2016) OR
- an ACT combined score of 22 or higher.

**Transfer Admission Requirements**

Transfer students (those with 12 or more transfer credit hours after high school graduation) are required to have a cumulative transfer GPA of 3.00 or higher. The School of Sustainability will review transfer applications that fall below this GPA level on an individual basis.

**Change of Major Requirements**
ASU students who would like to change their major to sustainability are required to have a cumulative ASU GPA of 3.00 or higher (based on at least 12 credit hours of ASU coursework). Students should see https://students.asu.edu/changingmajors 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](https://students.asu.edu/changingmajors).

**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

### 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

### 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/

The School of Sustainability recommends the following study abroad programs for students majoring in sustainability: http://links.asu.edu/SAO.sustainability.

Career Opportunities

In addition to going on to graduate school, graduates of the program are qualified for well-paying positions in:

- consultancy
- energy management
- government
- industry
- intergovernmental organizations
- international development
- management
- municipalities
- natural resource management
- nongovernmental organizations
- nonprofits
- policy-making enterprises
- regulatory agencies
- utilities
- waste management
- water management
Recent interest in sustainability within business and government has created new employment opportunities (e.g., sustainability coordinators, directors and managers). Of undergraduate alumni who have shared their experiences with the school (https://schoolofsustainability.asu.edu/careers/employment-data), 79 percent are employed in sectors such as those listed above and 16 percent have gone on to a graduate program. Of those employed, 70 percent have jobs directly related to sustainability. Sustainability students offer employers and graduate programs an integrated approach to developing solutions to sustainability challenges. They understand the complexity of systems, have engaged in a range of knowledge and experience from different disciplinary perspectives, and understand the importance of planning for the future and how to engage stakeholders in that process. Graduates of the program are adaptable and prepared for a changing world.

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>CEO</td>
<td></td>
<td>$183,270</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>
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<tr>
<td>Economist</td>
<td>6.3%</td>
<td>$102,490</td>
</tr>
<tr>
<td>Environmental Economist ☢</td>
<td>6.3%</td>
<td>$102,490</td>
</tr>
<tr>
<td>Environmental Restoration Planner ☢</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Specialist ☢</td>
<td>12.1%</td>
<td>$45,490</td>
</tr>
<tr>
<td>Field Researcher</td>
<td>2.5%</td>
<td>$54,270</td>
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<tr>
<td>Fish and Game Warden ☢</td>
<td>4.3%</td>
<td>$56,410</td>
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<tr>
<td>Forester</td>
<td>5.0%</td>
<td>$60,120</td>
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<tr>
<td>General Manager (GM) ☢</td>
<td>9.1%</td>
<td>$100,410</td>
</tr>
<tr>
<td>Green Marketer</td>
<td>5.5%</td>
<td>$106,130</td>
</tr>
<tr>
<td>Hydrogeologist ☢</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Industrial Ecologist ☢</td>
<td>11.1%</td>
<td>$69,400</td>
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<tr>
<td>Market Research Analyst ☢</td>
<td>23.2%</td>
<td>$63,230</td>
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<tr>
<td>Office Manager</td>
<td>10.1%</td>
<td>$94,020</td>
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<tr>
<td>Operations Manager</td>
<td>6.9%</td>
<td>$74,590</td>
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<tr>
<td>Park Ranger</td>
<td>6.3%</td>
<td>$61,480</td>
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<tr>
<td>Politician</td>
<td>7.1%</td>
<td>$25,630</td>
</tr>
<tr>
<td>Social Services Director ☢</td>
<td>18.0%</td>
<td>$64,100</td>
</tr>
<tr>
<td>Job Title</td>
<td>Growth Rate</td>
<td>Salary</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>-------------</td>
</tr>
<tr>
<td>Soil Conservationist</td>
<td>6.3%</td>
<td>$61,480</td>
</tr>
<tr>
<td>Solar Energy Installation Manager</td>
<td>12.6%</td>
<td>$64,070</td>
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<tr>
<td>Transportation Dispatcher</td>
<td>6.7%</td>
<td>$92,460</td>
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<tr>
<td>Urban Planner</td>
<td>12.8%</td>
<td>$71,490</td>
</tr>
<tr>
<td>Warehouse Manager</td>
<td>6.7%</td>
<td>$92,460</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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