

Fact sheet Natural sciences

School of Earth and Space Exploration



The edge of exploration

The School of Earth and Space Exploration is committed to high-impact scientific discovery. We ask important questions with deep consequences as we explore the great unknowns of the Earth, our solar system and the universe.

7 undergraduate
degrees

8 graduate
degrees

427 undergraduate
students

141 graduate
students

Cultivating an inclusive environment

Equity and inclusion are core values of the School of Earth and Space Exploration. We define our success not by whom we exclude, but by whom we include and how our students succeed; our educational programs are designed to broaden access to a quality science and engineering education. Our diverse faculty and students work side-by-side to advance research and discovery of public value in Earth and space science.

67

faculty
members

9:1

student-to-faculty
ratio

83

bachelor's degrees
granted
(in 2018-19)

29

graduate degrees
granted
(in 2018-19)

4,229

students enrolled
in the school
(fall 2019)

Leading global impact and innovative solutions

The interdisciplinary work of the School of Earth and Space Exploration brings together the brightest minds in astronomy and astrophysics, cosmology, geosciences, planetary sciences, exploration systems engineering and science education. We combine the creative strengths of science, engineering and education to set the stage for a new era of exploration.



Exploring continents and oceans

We're exploring all of Earth's continents and oceans, studying human impact on water resources, measuring the effects of mining, testing warning systems for volcanic eruptions, monitoring earthquakes, discovering the origin of Earth's oxygen, and collecting cores from the ocean depths to learn about the history and future of Earth's climate.



Unraveling the mysteries of the universe

We are leaders in exploring the universe, from the solar system to the stars, from planets to asteroids, and from the Milky Way to the most distant galaxies. Our faculty and students have access to world-class telescopes and instrumentation that have helped lead to major discoveries in fields including planetary geology, astrobiology, cosmology, astronomy, astrobiology and astrophysics.



Leading space missions

Our faculty, researchers, staff and students participate in over 20 space missions. We lead the NASA space missions Psyche and LunaH-Map and we develop and run instruments for scientific missions to the Moon, asteroids and planets including LRO, OSIRIS-REx, and the Mars 2020 rover.

Philanthropy fuels possibilities

When you give to our school, you become a partner in the academic success of our students, the research discoveries of our faculty and the continued effort to make the world better. From scholarship support to funding for a specific research cause, your generosity and investment benefits our community profoundly and enables our school to achieve the highest standards of excellence, access and impact.

Your generous support helps us create a unique academic environment in which scientific discovery motivates the exploration of today, technological innovation enables the discoveries of tomorrow and transdisciplinary learning prepares future generations of explorers.

—Meenakshi Wadhwa,
Director, School of Earth and Space Exploration

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At the School of Earth and Space Exploration, our students acquire the tools and knowledge to answer scientific questions in astrobiology and astrophysics, exploration systems design, planetary sciences, geological sciences and more. Our bachelor's, master's and doctoral programs are designed to challenge students, to encourage critical thinking and scientific inquiry and to inspire exploration.

Our new ASU Online bachelor's degree in astronomical and planetary sciences offers students the opportunity to learn about the latest space science discoveries from leading faculty and researchers, while developing skills in complex problem-solving, critical thinking and communication.

Undergraduate degrees

Astronomical and Planetary Sciences (BS) ASU Online degree
Earth and Environmental Studies (BA)
Earth and Space Exploration (BS)
Earth and Space Exploration Astrobiology and Biogeosciences (BS)
Earth and Space Exploration Exploration Systems Design (BS)
Earth and Space Exploration Astrophysics (BS)
Earth and Space Exploration Geological Sciences (BS)

Graduate degrees

Astrophysics and Astronomy (MS)
Astrophysics (PhD)
Exploration Systems Design Instrumentation (PhD)
Exploration Systems Design Sensor Networks (PhD)
Exploration Systems Design Systems Engineering (PhD)
Geological Sciences (MNS)
Geological Sciences (MS)
Geological Sciences (PhD)

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