Exploration Systems Design, MS
LAESDMS

Become a part of the next generation of researchers, those who are capable of inventing and implementing the next generation of scientific experiments, instruments and missions for Earth, planetary and space explorations.

Program Description

Degree Awarded: MS Exploration Systems Design
The MS program in exploration systems design promotes the development and growth of engineering-literate scientists and science-literate engineers. Its unique curriculum combines science applications with engineering knowledge and skills through engineering and science courses focused on Earth science, space science and astrophysics.

Three concentrations are also offered for those who wish more specific training in instrumentation, systems engineering and sensor networks.

At a Glance

- College/School: The College of Liberal Arts and Sciences
- Location: Tempe

Degree Requirements

30 credit hours including capstone course (SES 511)

Required Core (5 credit hours)
SES 501 SESE Colloquium (1)
SES 502 Exploring SESE Research (1)
SES 510 Graduate Exploration Project I (3)
Electives or Research (22 credit hours)

Culminating Experience (3 credit hours)
SES 511 Graduate Exploration Project II (3)

Additional Curriculum Information
For elective coursework, students select from the AST, GLG, SES or engineering courses in consultation with their faculty advisor. Six credit hours must be science coursework approved by the faculty advisor. Other courses can be used with academic unit approval.

Admission Requirements
Applicants must fulfill the requirements of both the Graduate College and The College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in engineering, physical science or a related field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. written statement
4. three letters of recommendation
5. proof of English proficiency

Additional Application Information
An applicant whose native language is not English must provide proof of English proficiency regardless of current residency.

Application Deadlines

Fall

Spring

Career Opportunities
The U.S. Department of Labor predicts that the economy will add an additional 63,000 jobs in engineering fields related to systems engineering and exploration systems design (involving electrical and electronics, aerospace and mechanical engineering). This is in addition to the 900,000 jobs already existing in the economy in these fields: https://www.bls.gov/ooh/architecture-and-engineering/home.htm.

The state of Arizona has a considerable presence from aerospace and other technology companies with high demand for skilled labor. In particular, local aerospace companies have high demand for students with direct experience and training in the space sector. This degree program is uniquely positioned to provide this training.

**Contact Information**

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