Program Description

Degree Awarded: MS Human Systems Engineering

The MS program in human systems engineering in the Ira A. Fulton Schools of Engineering provides students with a deep understanding of the science of human performance and with experience using methods and tools to apply this understanding to design and problem solving in a wide variety of domains such as product usability, learning design, sports performance, and workplace and hospital safety.

A broad range of professions needs experts in human factors to work on problems that involve an understanding of human performance. Students gain real-world experience by tackling projects that examine cutting-edge issues such as cell phones as a source of driver distraction, detection of improvised explosive devices, process optimization in health care, and even control of unmanned vehicles.

Interest areas include: user experience, aviation human factors, cognitive performance, consumer psychology, transportation human factors, patient safety, effective teamwork, health psychology, learning optimization, social cognition, threat detection and sports psychology.

Recent graduates are working at places like Intel, Boeing, GoDaddy, Mayo Clinic, PayPal, Motorola, Google and the Air Force Research Lab. Recipients of ASU master's degree have also gone on to pursue doctorates at ASU and other prestigious institutions.

At a Glance

- College/School: Ira A. Fulton Schools of Engineering
- Location: Polytechnic campus

Accelerated Degrees

This degree is also offered in an accelerated format with:
Acceptance to the graduate program requires a separate application. During their junior and senior years, eligible students will be advised by their academic departments to apply.

**Degree Requirements**

30 credit hours and a thesis, or
30 credit hours including the required applied project course (HSE 593)

**Required Core (18 credit hours)**

**Electives and Research (6 credit hours)**

**Culminating Experience (6 credit hours)**
PSY 599 Thesis (6) OR
PSY 593 Applied Project (6)

**Additional Curriculum Information**

Students have the option of doing a thesis or (with industry guidance) an applied project to develop and demonstrate professional knowledge and skills.

Students selecting the thesis option will, under faculty supervision, work on the thesis for at least one calendar year. The first three thesis credits will be devoted to developing an idea and preparing a proposal for approval by a faculty committee. The next three credits will allow for preparing the details of research design and data collection for the thesis (materials, computer programs, experimental test beds, questionnaires, etc.). The final six credits will be devoted to collecting and analyzing data and writing and revising the thesis under the direction of the student's committee chair. Students will defend the thesis in an oral examination.

In cases in which a student is engaged in a project initiated by industry, they may opt for the applied project option. Students selecting the applied project option will, under faculty supervision and guided by industry carry out the applied project in a calendar year in which the 12 credit hours outside of the core are allocated to a combination of research, applied project, and report writing appropriate to the goals of the student and the industry partner. In all cases, the project will culminate in a substantial written report followed by a comprehensive oral examination covering the project and other materials from required courses.

**Admission Requirements**
Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master’s degree in psychology or a related field (including engineering, computer science or business) from a regionally accredited institution.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. official GRE general exam scores
4. statement of purpose describing professional and academic aspirations
5. three letters of recommendation
6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

International applicants can find complete information on the English proficiency exams and other required documents on the Graduate Admission Services website: https://graduate.asu.edu/international.

The letters of recommendation should be from college professors, employers (in a human factors-related field) or a combination of both academic and professional references.

Applicants to this program generally have completed an undergraduate course in statistics.

Only complete applications will be reviewed.

Deadlines

Fall

Spring

Contact Information

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