Sensor Signal and Information Processing (Graduate Certificate)

ESSSIPGRCT

Program Description

Degree Awarded: Certificate Sensor Signal and Information Processing (Certificate)

The graduate certificate program in sensor signal and information processing provides background and application-oriented training in processing and interpreting signals acquired from sensors. The focus is on building knowledge and skills in several sensor network applications.

The program includes courses on signal and data processing for sensor systems. Course topics include digital signal processing, random signal theory, detection and estimation, sensor systems, big data and machine learning. The certificate may be completed with on-campus coursework and iCourses.

The certificate is a professional graduate program. The area of sensor information extraction and interpretation is an enabler for several applications, including health, sustainability, media, communications and security.

At a Glance

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

Degree Requirements

18 credit hours

**Required Core (12 credit hours)**

EEE 407 Digital Signal Processing (3) or EEE 509 DSP Algorithms and Software (3)
EEE 510 Multimedia Signal Processing (3)
EEE 554 Random Signal Theory (3)
EEE 556 Detection and Estimation Theory (3) or EEE 606 Adaptive Signal Processing (3)

Electives (6 credit hours)

Additional Curriculum Information
Students choose from EEE 407 or EEE 509 and EEE 556 or EEE 606 as part of the core coursework.

For electives or research, students should see the academic unit for the approved course list. Other coursework may be used with the approval of the academic unit.

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 an engineering or a science discipline such as physics, mathematics or computer science from an accredited institution.

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

Applicants are required to submit:

1. graduate admission application and application fee
2. official transcripts
3. statement of purpose
4. 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.

Regular admission will be granted to applicants who have at least 3.00 GPA or equivalent (scale is 4.00 = "A") and are competitive in the applicant pool. All prerequisites to the sensor signal and information processing certificate required courses must be in place (EEE 203 and EEE 350 from ASU, or signals and systems and random signals course equivalents from other universities).
Contact Information

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