Technology (Electronic Systems Engineering Technology), MSTech

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Program Description

Degree Awarded: MSTech Technology (Electronic Systems Engineering Technology)

The MSTech program with a concentration in electronic systems provides students with graduate-level expertise in the technology of electronics and its application at a system level. The program is flexible and permits students to develop a program of study, with faculty approval, to meet their individual career goals. The student selects a combination of courses in a technical concentration and supporting area. The program provides students with an opportunity to conduct research either as a master's degree thesis or as an applied project. This research experience will develop special research and application skills directly related to individual needs and objectives.

At a Glance

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

Degree Requirements

33 credit hours and a thesis, or
33 credit hours including the required applied project course (EST 593 or EET 593)

The degree requirements for the master's degree with a concentration in electronic systems engineering technology offered by the department include:
THESIS OPTION
Concentration (15-16 credit hours)

Supporting Area (8-9 credit hours)

Research Methods (3 credit hours)
EST 500 Research/Writing (2)
EST 591 Graduate Seminar (1)

Culminating Experience (6 credit hours)
EST 599 Thesis (6)

At least nine hours of 500-level coursework must be included in the technical concentration. Students may take up to six credit hours of 400-level coursework to broaden their technical knowledge within the concentration or supporting area. Students are required to complete six hours of EST 599 Thesis, write a thesis and make an oral defense. All coursework applied toward the minimum 33 credit hours total must be at the 400 and 500 levels.

NONTHESIS OPTION
Concentration (15-18 credit hours)

Supporting Area (9-12 credit hours)

Research Methods (3 credit hours)
EST 500 Research/Writing (2)
EST 591 Graduate Seminar (1)

Culminating Experience (3 credit hours)
EST 593 Applied Project (3)

At least nine credit hours of 500-level coursework must be included in the technical concentration. A maximum of three credit hours of EST 593 Applied Project may be applied toward the 20-credit-hour, 500-level minimum. Additional background deficiency hours may be required. All coursework outside the department must be preapproved by the department chair.

A final oral defense of the applied project is required. A copy of the applied project report or thesis must be submitted before the candidate is eligible for this examination.

Additional Curricular Information
Coursework: The student selects a concentration and supporting area, as well as a subset of courses from each area. Specifically, five to six courses are selected from the concentration area, and three or four are selected from the supporting area. Early in the program, the student identifies a major advisor, who is a
faculty member of the department interested in the selected area of concentration, and a committee. The student works with the major advisor and committee to develop the program of study and subsequently to carry out the research component of the program.

Research: Each student, as a part of the degree program, is required to complete an applied project or thesis within the student's area of emphasis. The applied project includes a written report.

Research Activity: Research activities in the department include systems, circuit applications and digital design. Candidates will find a broad range of research that can lead to an applied project or thesis.

Admission Requirements

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

All applicants must submit the following items. Incomplete files will not be reviewed or considered until complete.

1. graduate admission application and application fee
2. official transcript from each college or university attended
3. official GRE general exam scores
4. statement of purpose
5. current resume
6. (optional) three letters of recommendation
7. 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 College website: https://students.asu.edu/graduate/proficiency.

Note: A bachelor's degree that includes a minimum of 30 credit hours or equivalent in a technology area including coursework applicable to the concentration being sought, and a minimum of 16 credit hours of mathematics and science is required.

Undergraduate deficiency courses must be completed within the first year of the graduate program while concurrently enrolled in graduate-level course work.

Applicants should see the program website for application deadlines.