Semiconductor Processing (Graduate Certificate)

Did you know semiconductor chips power many of the electronic devices we depend on every day? Used in everything from mobile phones and household appliances to the communications networks that support autonomous vehicle fleets, semiconductor processing is more important than ever before. Be at the forefront of semiconductor technology as this field continues to advance.

Program Description

Degree Awarded: Certificate Semiconductor Processing (Certificate)
This certificate program provides a series of courses in semiconductor processing, packaging and characterization that prepare students for careers in the industry or for graduate studies. Students select from a set of core courses and technical electives.

At a Glance

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

Degree Requirements

15 credit hours
Required Core (9 credit hours)
EEE 530 Advanced Silicon Processing (3)
IEE 572 Design Engineering Experiments (3)
MSE 550 Advanced Materials Characterization (3)

Electives or Research (6 credit hours)

Additional Curriculum Information
Students should see the academic unit for available elective and research coursework.

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 engineering 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.

Applicants are required to submit:

1. graduate admission application and application fee
2. official transcripts
3. professional resume
4. 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.

International students who need an F1 or J1 visa first need to apply to and be accepted into a graduate degree program prior to being considered for the certificate program. International students residing in the USA on other types of visas must adhere to all Graduate College policies and procedures regarding admission to be considered for admission to this certificate program.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.
Career Opportunities

Professionals with a semiconductor processing certificate can find employment with semiconductor device manufacturers and semiconductor processing equipment manufacturers at all levels. The skills learned in this program prepare graduates for a career as a practicing engineer.

Career examples include:

- development engineer
- process engineer
- product engineer

Contact Information

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