

SEMICONDUCTOR ENGINEERING AND PHYSICS CGS

All Students must meet the Requirements for the Certificate of Graduate Study.

OVERVIEW

Certificate of Graduate Study in Semiconductor Engineering and Physics (CGS-SEP) program aims to expand the depth of instruction in semiconductor-related areas for students who are pursuing graduate degrees in electrical or mechanical engineering, materials science, as well as physics or chemistry. It is also highly suitable for people already working in the industry who want to broaden their experience in other areas of semiconductor technology.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Certificate of Graduate Study

Students are required to have earned a bachelor's degree from an accredited college or university.

Minimum Degree Requirements

Coursework in our 13-credit Certificate of Graduate Study in Semiconductor Engineering and Physics (CGS-SEP) covers semiconductor devices, electrical characterization, and metrology with electives related design, physics, and process integration.

Requirement Description		Credits
Required Core Coursework		
EE 5440	Gr Semiconductor Materials/Dev	4
or PHYS 5675	Gr Semiconductor Materials/Dev	
Preapproved Electives (9 credits minimum)		
EE 5410	Digital VLSI Circuit Design	3
EE 5430	RF Circuit Design	3
EE 5460	Microelec. Circuit Fabrication	4
EE 5810	Digital Computer Design	3