

**SAMPLE PLAN OF STUDY
SOLID STATE ELECTRONICS
ELECTRICAL ENGINEERING
ARIZONA STATE UNIVERSITY
MSE Degree**



This is a sample plan of study, which meets the degree requirements for the MSE program. Course selection is up to the individual and should be made based on academic and career goals. A complete list of all courses by specialization area may be found [here](#). The list of special topics courses offered every semester may be found [here](#). All students should review the [MSE Final Comprehensive Exam](#) description for their area to ensure adequate exam preparation. Students are also responsible for checking [course prerequisites](#) to be certain they are prepared for the courses they select.

	Course Number	Course Title	Credits	Semester/Year
1	EEE 591/435	Fundamentals of CMOS and MEMS	3	Fall/1
2	EEE 591/436	Fundamentals of Solid-State Devices	3	Fall/1
3	EEE 537	Fundamentals of Optoelectronics	3	Fall/1
4	EEE 530	Advanced Silicon Processing	3	Spring/1
5	EEE 536	Semiconductor Characterization	3	Spring/1
6	EEE 598	Nanophotonics	3	Spring/1
7	EEE 531	Semiconductor Device Theory I	3	Fall/2
8	EEE 565	Solar Cells	3	Fall/2
9	EEE 547	Microwave Solid-State Circuit Design I	3	Fall/2
10	EEE 528	Introduction to Microelectromechanical Systems	3	Spring/2

MSE Degree Requirements: At least five EEE courses, at most two 400-level courses, at least three EEE 500- level courses (not EEE 591 or 590), at least two courses outside area of specialization, at most one EEE 590 Reading and Conference or any FSE 500 level course. Total: 10 classes required, 30 credits minimum.