



Master of Science in Electrical Engineering Degree Plan Options

Non-thesis Option: 36 Credit Hours	EENG Core: 24 Credits		
	Course	Title	SCH
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
MATH: 3 Credits			
Course	Title	SCH	
EENG 5307	Intro. to Random Processes	3	
OR			
MATH 5311	Advanced Engineering Math	3	
EENG or Electives: 9 Credits			
Course	Title	SCH	
53xx		3	
53xx		3	
53xx		3	

Thesis Option: 30 Credit Hours	EENG Core: 15 Credits		
	Course	Title	SCH
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
	EENG 53xx		3
EENG or Electives: 6 Credits			
Course	Title	SCH	
53xx		3	
53xx		3	
MATH: 3 Credits			
Course	Title	SCH	
EENG 5307	Intro. to Random Processes	3	
OR			
MATH 5311	Advanced Engineering Math	3	
Thesis			
Course	Title	SCH	
EENG 5395	Thesis I	3	
EENG 5396	Thesis II	3	

Class Options List:

EENG Core	
Course	Title
EENG 5301	Wireless Communications and Networks
EENG 5303	Computational Methods in Electromagnetics
EENG 5304	Computer-Aided Power Systems Analysis
EENG 5307	Introduction to Random Processes
EENG 5308	Digital Signal Processing
EENG 5309	Statistical Signal Processing
EENG 5310	Solid State Devices
EENG 5316	Optical Fiber Communications
EENG 5330	Communications Systems Engineering
EENG 5311	Organic Electronics
EENG 5333	Power Systems Planning and Operation
EENG 5334	VLSI Design
EENG 5335	FPGA Design
EENG 5336	Real Time Systems
EENG 5337	Semiconductor Devices
EENG 5340	Advanced Topics in Electrical Engineering
EENG 5370	Graduate Internship*
EENG	Independent Study (3 credits at most)*

Electives	
Course	Title
EENG 53xx	Any Electrical Engineering Graduate Class
COSC 5326	UNIX Programming Environment
COSC 5330	Operating Systems
COSC 5336	Local Area Networks
COSC 5340	Programming Languages
COSC 5341	Computer Security
COSC 5345	Computer Graphics
COSC 5346	Expert Systems
COSC 5350	Data Communication and Network
COSC 5352	Client/ Server Architectures
COSC 5354	Parallel and Supercomputing
COSC 5360	Database Design
COSC 5361	Digital Image Processing
COSC 5362	Pattern Recognition
COSC 5365	Artificial Intelligence
COSC 5370	Software Engineering
COSC 5371	Data Mining
COSC 5374	Software Architecture
COSC 5375	Advanced Database Design
COSC 5376	Fundamentals of Data Warehouses
COSC 5377	Fundamentals of Modeling and Distribution
COSC 5378	Simulation of Complex Systems
COSC 5379	Applied Computer Graphics
COSC 5381	Advances in Remote Sensing and GIS Analysis
COSC 5382	Advanced UNIX O/S Design
COSC 5382	Comprehensive Internet Security
COSC 5390	Topics in Computer Science*
COSC 5391	Topics in Distributed Systems*
MENG 5309	Intermediate Solid Mechanics
MENG 5318	Manufacturing Systems
MENG 5325	Design of Turbomachinery
MENG 5326	Vibration Analysis of Rotating Machinery
MENG 5328	Finite Element Analysis
MENG 5336	Intermediate Fluid Mechanics
MENG 5337	Viscous Flow
MENG 5338	Conduction of Heat Transfer
MENG 5339	Convection Heat Transfer
MENG 5340	Advanced Topics in Mechanical*
MENG 5344	Systems Dynamics
CENG 53xx	_____*
MATH 53xx	_____*

*Must be approved by MSEE Coordinator before registering for course