

ECE Master's Degree Plans of Study

Wireless Security

COMP6520	Network and Operating System Administration	3 CR
ELEC6110	Wireless Networks	3 CR
ELEC6150	Information Security	3 CR
ELEC6220	Information Networks & Technology	3 CR
ELEC7220	Advanced Information Networks & Technology	3 CR
ELEC7970	Special Topics / Wireless Security	3 CR
ELEC7420	Adaptive Signal Processing	3 CR
ADMH6120	Information Theory	3 CR
ADMH6180	Cryptography	3 CR
ELEC7990	Research and Thesis	4 - 6 CR
* 8 or More Courses should be taken except Research and Thesis.		

Signal Transmission & Reception

ELEC6310	Antennas	3 CR
ELEC6320	Electromagnetic Compatibility	3 CR
ELEC6340	Microwave and RF Engineering	3 CR
ELEC6420	Wireless Communication Systems	3 CR
ELEC7330	Electromagnetic Measurements	3 CR
ELEC7780	RF Microelectronics	3 CR
ELEC7990	Research and Thesis	4 - 6 CR
* 8 or More Courses should be taken except Research and Thesis. (Processing)		

✓ Wireless Circuit Design

ELEC6340	Microwave Engineering	3 CR
ELEC6410	Digital Signal Processing	3 CR
ELEC6420	Wireless Communication Systems	3 CR
ELEC6700	Semiconductor Fundamentals	3 CR
ELEC6710	Semiconductor Devices	3 CR
ELEC6730	Microelectronic Fabrication	3 CR
ELEC6780	Analog Circuit Design	3 CR
ELEC7330	Electromagnetic Measurements	3 CR
ELEC7710	The Field Effect Transistor	3 CR
ELEC7720	The Bipolar Transistor	3 CR
ELEC7780	RF Microelectronics	3 CR
ELEC7990	Research and Thesis	4 - 6 CR
* 8 or More Courses should be taken except Research and Thesis.		

✓ Wireless Devices Design & TCAD

ELEC6340	Microwave Engineering	3 CR
ELEC6420	Wireless Communication Systems	3 CR
ELEC6700	Semiconductor Fundamentals	3 CR
ELEC6710	Semiconductor Devices	3 CR
ELEC6730	Microelectronic Fabrication	3 CR
ELEC7710	The Field Effect Transistor	3 CR
ELEC7720	The Bipolar Transistor	3 CR
ELEC7780	RF Microelectronics	3 CR
ELEC7970	Special Topics	3CR
ELEC7990	Research and Thesis	4 - 6 CR
* 8 or More Courses should be taken except Research and Thesis.		

 **Wireless Communication & Signal Processing**

COMP6360	Wireless and Mobile Networks	3 CR
COMP7360	Wireless and Mobile Networks	3 CR
ELEC6220	Information Networks & Technology	3 CR
ELEC6410	Digital Signal Processing	3 CR
ELEC6420	Wireless Communication Systems	3 CR
ELEC7220	Advanced Information Networks & Technology	3 CR
ELEC7410	Stochastic Signal and System Analysis	3 CR
ELEC7420	Adaptive Signal Processing	3 CR
ELEC7430	Advanced Communication Theory	3 CR
ELEC8420	Detection and Estimation Theory	3 CR
ADMH6120	Information Theory	3 CR
ADMH6150	Algebraic Coding Theory I	3 CR
ELEC7990	Research and Thesis	4 - 6 CR
* 8 or More Courses should be taken except Research and Thesis.		