

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING WITH SPECIALIZATION IN ENERGY/ENVIRONMENT/ ECONOMICS (E3)

Curriculum

Requirement	Credits
Minimum Credits Required	32
Maximum 400-Level Credit	12
Minimum 500-Level Credit	18
Maximum 700-Level Credit	6
Minimum ECE Credit	24
Maximum Transfer Credit	9

Code	Title	Credit Hours
E3 Courses (12)		
CHE 543	Energy Envir Economics	3
Select a minimum of two courses from Group A		6
Select a minimum of one course from Group B		3
Power & Control Courses (6-8)		
Select a minimum of two courses from the following:		6-8
ECE 411	Power Electronics	4
ECE 412	Hybrid Electric Vehicle Drives	4
ECE 417	Power Dist Engring	3
ECE 419	Power Systems Analysis w/Lab	4
ECE 420	Analyt. Methods for Power Syst	3
ECE 438	Control Systems	3
ECE 505	Applied Optimization Engrgs	3
ECE 506	Anlys Nonlinear Systems	3
ECE 531	Linear System Theory	3
ECE 535	Discrete Time Systems	3
ECE 538	Renewable Energies	3
ECE 539	Cmpt Aided Dsgn Elec Machines	3

ECE 540	Relibly Theory Syst Implntn	3
ECE 548	Energy Harvesting	3
ECE 549	Motion Control Syst Dynamics	3
ECE 550	Power Elect Dymcs Control	3
ECE 551	Advanced Power Electronics	3
ECE 552	Adjustable Speed Drives	3
ECE 553	Power System Planning	3
ECE 554	Power Systems Relaying	3
ECE 555	Power Market Operations	3
ECE 556	Power Mkt Ecnmcs Security	3
ECE 557	Fault Tolerant Power Systems	3
ECE 558	Power System Reliability	3
ECE 559	High Voltage Power Trans	3
ECE 560	Power Syst Dynamics Stability	3
ECE 561	Deregulated Power Systems	3
ECE 562	Power Syst Tran Management	3
ECE 563	Comptl Intlngnc Engineering	3
ECE 564	Cntrl Oprtn Elect Power Systs	3
ECE 580	Elements of Sustainable Energy	3
ECE 581	Elements of Smart Grid	3
ECE 582	Microgrid Design and Operation	3

Master's Project (3-6)

Select three to six credit hours ¹ 3-6

General Electives (6-11)

Select 6-11 credit hours of electives from ECE 400-599, ECE 601-699, and ECE 700-799 6-11

¹ ECE 594 or ECE 597