

Technical Proficiency Courses

Three of the areas below must be covered.

Indicate the grade received in one course in each of three areas.

Technical Area	Technical Proficiency Courses	Grade
1. Digital and Microprocessor Controller Systems	EE 5313 – Microprocessor Systems Approved Substitution: EE_____	
2. Solid State Devices, and Systems	EE 5305 – Advanced Electronics EE 5310 – Digital VLSI Design EE 5340 – Semiconductor Device Theory EE 5341 – Fundamentals for Semiconductor Devices Approved Substitution: EE_____	
3. Systems, Controls and Automated Manufacturing	EE 5307 – Linear Control Systems Theory EE 5320 – Control System Design EE 5328 – Instrumentation and Measurement Approved Substitution: EE_____	
4. Electromagnetic Fields and Applications	EE 5306 – Electromagnetic Theory EE 5331 – Microwave Systems Engineering Approved Substitution: EE_____	
5. Digital Signal and Image Processing	EE 5302 – Random Signals and Noise EE 5350 – Digital Signal Processing EE 5356 – Digital Image Processing Approved Substitution: EE_____	
6. Telecommunications and Information Systems	EE 5360 – Data Communication Engineering EE 5362 – Digital Communications Approved Substitution: EE_____	
7. Power Systems and Industrial Power Electronics	EE 5308 – Power System Modeling and Analysis EE 5371 – Power System Transmission I Approved Substitution: EE_____	
8. Optical Devices and Systems	EE 5380 – Principals of Photonics and Optical Engineering EE 5386 – Integrated Optics Approved Substitution: EE_____	
9. Nanotechnology and MEMS – Materials, and Devices	EE 5343 – Silicon IC Fabrication Technology EE 5344 – Introduction to MEMS EE 5381 – Foundations in Semiconductors Approved Substitution: EE_____	

Student Name and student number _____

Graduate Adviser and date _____