

Department of Electrical and Computer Engineering Checklist for the MEng(EE) Degree

This checklist is provided to document the completion of the degree requirements for the program leading to the Master of Engineering (with Major in Electrical Engineering) at NPS.

Student name (please PRINT CLEARLY): _____;

email: _____

Month/year enrolled: _____ ; **Graduation date:** _____

I certify that 1) the information contained on this form is correct; and 2) courses included in this checklist are not included in the requirements towards another Master degree.

Student : _____ ; **Date:** _____

We certify that this student has met the minimum requirements for the MEng(EE) degree.

Signatures:

**Academic Associate, Date
ECE Department**

ECE Assoc. Chair for Students, Date

Program Officer/Manager, Date

ECE Department Chair, Date

List of available ECE courses

Cyber Systems

EC 3730	Cyber Network & Physical Infrastructures	(3-2)
EC 3740	Reverse Engineering in Electronic Syst.	(3-2)
EC 3750	SIGINT Systems I ^(c)	(3-2)
EC 3760	Information Operations Systems ^(c)	(3-2)
EC 3795	Mobile Telecommunication Fundamentals	(3-2)

EC 4715	Cyber System Vulnerabilities & Risk Assessment	(3-2)
EC 4730	Covert Communications	(3-2)
EC 4735	Telecommunications Systems Security	(3-2)
EC 4747	Data Mining in Cyber Applications	(3-2)
EC 4755	Network Traffic, Activity Detection, & Tracking	(3-2)
EC 4765	Cyber Warfare ^(c)	(3-2)
EC 4770	Wireless Communications Network Security	(3-2)
EC 4790	Cyber Architectures & Eng.	(3-2)
EC 4795	Wireless Device Security	(3-2)

^(c): Classified Course

Machine Power Systems

EC 3130	Electrical Machinery Theory	(3-3)
EC 3150	Solid State Power Conversion	(3-2)

EC 4130	Advanced Electrical Machinery Systems	(3-3)
EC 4150	Advanced Solid State Power Conversion	(3-2)

Sensor Systems Engineering

EC 3210	Introduction to Electro-Optical Eng.	(4-1)
EC 3600	Antennas & Propagation	(3-2)
EC 3610	Microwave Engineering	(3-2)
EC 3615	Radar Fundamentals	(3-2)
EC 3630	Radiowave Propagation	(3-2)
EC 3700	Joint Network-enabled El. Warfare I	(3-2)

EC 4600	Advanced Topics in Sensor Systems	(v-v)
EC 4615	Advanced Radar	(3-2)
EC 4630	RCS Prediction	(3-2)
EC 4640	Airborne Radar Systems	(3-2)
EC4685	Principles of Electronic Warfare	(3-2)

Signal Processing Systems

EC 3400	Digital Signal Processing	(3-2)
EC 3410	Discrete-Time Random Signals	(3-2)
EC 3460	Machine Learning for Signal Analytics	(3-2)

EC 4400	Advanced Topics in Signal Proc.	(3-0)
EC 4430	Multimedia Info & Communications	(3-1)
EC 4440	Statistical Digital Signal Processing	(3-2)
EC 4450	Array Signal Processing	(3-2)

Solid State Microelectronics

EC 3200	Advanced Electronics Engineering	(3-2)
EC 3220	Semiconductor Device Technologies	(3-2)
EC 3230	Space Power and Radiation Effects	(3-1)
EC 3240	Renewable Energy at Military Bases	(3-2)

EC 4220	Introduction to Analog VLSI	(3-2)
EC 4230	Reliability Issues for Military Electronics	(3-2)

Non-NPS based transferred courses

List **non-NPS** based transferred course(s) - include school name, credits (sem/quarter), Academic Council dates of approval for transfer. A maximum of 25% (8 quarter credits) are transferrable, per AC policy 6.6.3.

Course No.	Credit Information (School Name, credits, AC approval date)

Course credit requirements

