

Electrical Engineering (Option A)

September 2021 (for students who entered first year in September 2018)

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Te	rm	ιA

AM 2270A Applied Mathematics for Engineering II CS 1027A Computer Science Fundamentals II

ECE 2205A Electric Circuits I
ECE 2277A Digital Logic Systems
ECE 2240A Electrical Laboratory

Writ 2130F Building Better (Communication) Bridges: Rhetoric &

Professional Communication for Engineers

Term B

AM 2276B Applied Mathematics for Elec. & Mech. Engineering III

ECE 2231B Introduction to Electronics
ECE 2233B Circuits and Systems

ECE 2236B Magnetic Circuits and Transmission Lines ECE 2242B Principles of Design in Electrical Engineering

MME 2234B Heat Transfer and Dynamics

Year 3

Term A

AM 3415A Applied Math for Electrical Engineering

ECE 3330A Control Systems
ECE 3332A Electric Machines
ECE 3337A Electronic Circuits

SS 2141A Applied Probability and Statistics for Engineers
One 0.5-credit non-technical elective from approved list (either term)

Term B

ECE 3331B Introduction to Signal Processing

ECE 3333B Electric Power Systems I
ECE 3336B Electromagnetic Theory
ECE 3370B Communication Electronics I

ECE 3375B Microprocessors and Microcomputers

ECE 3399B Principles and Practices of Design of Electronic Systems

Year 4

Term A

ECE 4416 Electrical/Computer Engineering Project ECE 4429A Advanced Digital Signal Processing

ECE 4437A Communications Theory

One 0.5-credit non-technical elective from approved list

Two 0.5-credit technical electives

Term B

ECE 4416 Electrical/Computer Engineering Project

ELI 4110G Engineering Ethics, Sustainable Development & the

Law

One 0.5-credit non-technical elective from approved list

Three 0.5-credit technical electives

NOTES:

Non-technical electives:

Please choose 1.0 credits (one 1.0-credit or two 0.5-credit courses) from the 1000 level and one 0.5-credit course from the 2000 (or higher) level.

Technical Electives

Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

Introduction to VLSI	
Advanced Digital Systems	
Selected Topics in Electrical Engineering I	
Selected Topics in Electrical Engineering II	
Radiation and Propagation	
Digital Communications Systems	
Networking: Principles, Protocols and	
Architecture	
Advanced Image Processing & Analysis	
Conventional, Renewable & Nuclear Energy	
Introduction to Digital Image Processing	
Advanced Topics in Wireless	
Communications	
Biomedical Systems Analysis	
Power Systems Protection	
Power Electronics	
Real-Time Embedded Systems	
Electric Power Systems II	
Systems Optimization	
Applied Control Systems	
Robotics and Manufacturing Automation	
Computer Integrated Manufacturing	
Fundamentals of MEMS	
Mechatronic System Design	
Machine Learning & Design	