

Computer Engineering – Electronic Devices for Ubiquitous Computing (Option A)

September 2018 (students who entered first year in September 2016)

Year 2:

Term A

AM 2270a	Applied Mathematics for Engineering II
CS 1037a	Computer Science Fundamentals II
ECE 2205a	Electric Circuits 1
ECE 2240a	Electrical Laboratory
ECE 2277a	Digital Logic Systems
Writing 2130f	Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

Term B

AM 2276b	Applied Mathematics for Elec & Mech Eng III
ECE 2231b	Introduction to Electronics
ECE 2233b	Circuits and Systems
ECE 2241b	Electrical Laboratory II
ECE 3375b	Microprocessors and Microcomputers
ECE 3380b	Advanced Digital Systems

Year 3:

Term A

CS 2211a	Software Tools and Systems Programming
Math 2151a	Discrete Structures for Engineering
ECE 3330a	Control Systems
ECE 3349a	Introduction of VLSI
ECE 3389a	Computer System Design
SE 2203a	Software Design

Term B

CS 2210b	Data Structures and Algorithms
ECE 2236b	Magnetic Circuits and Transmission Lines
ECE 3331b	Introduction to Signal Processing
ECE 3390b	Hardware/Software Co-Design
SS 2143b	Applied Probability and Statistics
0.5 non-technical elective taken from the approved list	

Year 4:

Term A

ECE 4415	Computer Engineering Design Project
ECE 4436a	Networking
ECE 4437a	Communications Theory
SE 3313a	Operating Systems for Software Engineering
0.5 non-technical elective taken from approved list	
One 0.5 technical elective	

Term B

ECE 4415	Computer Engineering Design Project
ECE 4460b	Real-Time and Embedded Systems
ES 4498G	Engineering Ethics, Sustainable Development and the Law
SE 3314b	Computer Networks Applications
0.5 non-technical elective taken from approved list	
One 0.5 technical elective	

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 from the 2000+ level.

Technical Elective List:

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

ECE 3332a/b	Electric Machines
ECE 3333a/b	Electric Power Systems 1
ECE 3337a/b	Electronic Circuits
ECE 3370a/b	Communication Electronics 1
ECE 4429a/b	Advanced Digital Signal Processing
ECE 4438a/b	Advanced Image Processing & Analysis
ECE 4445a/b	Introduction to Digital Image Processing
ECE 4455a/b	Biomedical Systems Analysis
ECE 4469a/b	Applied Control Systems
Maximum one of:	
CS 3319a/b	Databases 1
CS 3340a/b	Analysis of Algorithms 1
CS 3346a/b	Artificial Intelligence 1