## **Electrical Engineering (Option A)**

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

		NOTES:	
Year 2:			
Term A		Non-technical ele	<u>ctives:</u>
AM 2270a	Applied Mathematics for Engineering II		
CS 1037a	CS 1037a Computer Science Fundamentals II Please choose 1.0 credits (one 1.0 credit or		credits (one 1.0 credit or two 0.5 credit
ECE 2205a Electric Circuits I courses from the 1000 level		1000 level and one 0.5 credit from the	
ECE 2277a	Digital Logic Systems	2000+ level.	
ECE 2240a	Electrical Laboratory		
Writing 2130f/g	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 2236b	Magnetic Circuits and Transmission Lines		
ECE 2241b	Electrical Laboratory II		
MME 2234b	Heat Transfer and Dynamics		
Year 3:		Technical Electi	ve List:
Term A		Some technical -l	tives may not be offered in a siven as denote
AM 3415a	Applied Mathematics for Electrical Engineering II		tives may not be offered in a given academic partment for accurate listing.
ECE 3330a	Control Systems	year. consult the de	parameter of accurate noting.
ECE 3332a	Electric Machines	ECE 3349a/b	Introduction of VLSI
ECE 3337a	Electronic Circuits	ECE 3349a/b	Advanced Digital Systems
SS 2141a	Applied Probability and Statistics for Engineers	ECE 4430a/b	Selected Topics in Electrical Eng. I
0.5 non-technical	elective from the approved list (either a or b term)	ECE 4430a/b	Selected Topics in Electrical Eng. I
Term B		ECE 4432a/b	Radiation and Propagation
	Introduction to Signal Dragossing	ECE 4433a/b	Digital Communications Systems
ECE 3331b ECE 3333b	Introduction to Signal Processing		Networking: Principles, Protocols and
ECE 3336b	Electric Power Systems I Electromagnetic Theory	ECE 4436a/b	Architecture
ECE 3370b		ECE 4438a/b	Adv. Image Processing & Analysis
ECE 3375b	Microprocessors and Microcomputers		Conventional, Renewable and Nuclear
ECE 3399b	Principles and Practices of Design of Electronic Systems	ECE 4439a/b	Energy
		ECE 4445a/b	Intro. to Digital Image Processing
Voor 1.		,	Advanced Topics in Wireless
Year 4:		ECE 4451a/b	Communications
Term A		ECE 4455a/b	Biomedical Systems Analysis
ECE 4416	Electrical/Computer Engineering Project	ECE 4456a/b	Power Systems Protection
ECE 4429a	Advanced Digital Signal Processing	ECE 4457a/b	Power Electronics
ECE 4437a	Communications Theory	ECE 4460a/b	Real-Time and Embedded Systems
0.5 non-technical elective from the approved list		ECE 4464a/b	Electric Power Systems II
Two 0.5-course technical electives from the approved list		ECE 4468a/b	Systems Optimization
		ECE 4469a/b	Applied Control Systems
		MME 4452a/b	Robotics and Manu. Automation
Term B	Electrical/Computer Engineering Project	MME 4473a/b	Computer Integrated Manufacturing
ECE 4416			
ES 4498g	Engineering Ethics, Sustainable Development and the Law elective from the approved list	MME 4482a/b	Fundamental of MEMS