Electrical Engineering: Biomedical Signals and Systems (Option G)

September 2019 *(for students who entered first year <u>prior to</u> September 2016)*

	NOTES:
Year 2	
Term A	
AM 2270A — Applied Mathematics for Engineering II	
CS 1037A — Computer Science Fundamentals II	
ECE 2205A — Electric Circuits I	
ECE 2277A — Digital Logic Systems	
ECE 2240A — Electrical Laboratory	
ES 2211F — Engineering Communications	
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 2241B — Electrical Laboratory II	
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	
MedBio 3330F — Human and Animal Biomechanics	
Term B	
ECE 3331B — Introduction to Signal Processing	
ECE 3336B — Electromagnetic Theory	
ECE 3375B — Microprocessors and Microcomputers	
MedBio 3507G — Analysis for Oxygen Transport in Biological Systems	
One 0.5-credit technical elective	
One 0.5-credit non-technical elective from approved list	
Year 4	
Term A	
BUS 2299E — Business for Engineers	**Technical Electives**
ECE 4416 — Electrical/Computer Engineering Project	Some technical electives may not be offered in a given
ECE 4429A — Advanced Digital Signal Processing	academic year. Consult the Department for accurate listing.
ECE 4437A — Communications Theory	
ECE 4445A — Introduction to Digital Image Processing	
Physiol 2130 — Human Physiology	

Biochem 2280A	Biochemistry and Molecular Biology
MedBio 3503G	Fundamentals of Digital Imaging
CBE 4421A	Introduction to Biomaterials Engineering

Term B
BUS 2299E — Business for Engineers
ECE 4416 — Electrical/Computer Engineering Project
ECE 4438B — Advanced Image Processing and Analysis
ECE 4455B — Biomedical Systems Analysis
ES 4498G — Engineering Ethics, Sustainable Development & the Law
Physiol 2130 — Human Physiology