## Electrical Engineering: Biomedical Signals and Systems (Option G)
**September 2020 (for 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 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 II
- 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 technical elective from the approved list
- One 0.5 non-technical elective from the approved list

### Year 4
#### Term A
- ECE 4416  Electrical/Computer Engineering Project
- ECE 4429A  Advanced Digital Signal Processing
- ECE 4437A  Communications Theory
- ECE 4445A  Introduction to Digital Image Processing
- Physiol 2130  Human Physiology
- ECE 4455B  Biomedical Systems Analysis

#### Term B
- 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
- Two 0.5-credit non-technical elective from approved list

### 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.