EEL 5934 Biosignal Processing

Credits: 3 credits


Reference materials: N/A

Specific Course Information


Prerequisites: Linear Systems or equivalent with permission of instructor.

Specific Goals for the Course: This course is intended to provide a comprehensive overview of techniques of processing bioelectrical signals. It will be problem-based and programming oriented. Students are expected to code in MATLAB at a level where they can use programming to verify and demonstrate concepts. Demonstration of work will be done with synthetically generated waveforms and real data.

Brief List of Topics to be covered:

1. Basics of Bioelectrical Signals
2. The Electrocardiogram Signal Processing
3. Evoked Potentials
4. The Electroencephalogram (EEG)
5. EEG Signal Processing
6. The Electromyogram