El E 413: Biomedical Signal Processing

Electrical Engineering

Introduction to the electrocardiogram, electroencephalogram, electromyogram, and other diagnostic signals. Analysis of biomedical systems using both time-domain and frequency-domain techniques. Computer techniques for processing and analysis of biomedical signals. Practical applications in cardiac and neurological signal processing.

3 Credits

Prerequisites

- **Math 353: Elementary Differential Equations**
- **Csci 111 or Csci 251**

Instruction Type(s)

- Lecture: Lecture for El E 413

Subject Areas

- **Electrical and Electronics Engineering**
- **Bioengineering and Biomedical Engineering**

Related Areas

- **Electrical, Electronics and Communications Engineering, Other**
- **Laser and Optical Engineering**
- **Telecommunications Engineering**