

## **ES 514: Applied Electrophysiology**

### **[Health, Exercise Sci & Recreation Mgmt](#)**

This course will provide an in-depth exploration of physiological principles, data collection, analysis, and interpretation of bioelectrical signals to study human health and function. Topics include, but may not be limited to, membrane electrophysiology, electroencephalography (EEG), electromyography (EMG), and electrocardiography (ECG).

A lecture/discussion format will be used in conjunction with complementary laboratory demonstrations and exercises. Students are fully expected to contribute to lecture discussions of assigned readings and relevant topics.

3 Credits

### **Prerequisites**

- Instructor Approval Required
- Prerequisite: Junior standing (60 hr).

### **Instruction Type(s)**

- Lecture: Lecture for ES 514

### **Subject Areas**

- [Kinesiology and Exercise Science](#)

### **Related Areas**

- [Health and Physical Education, General](#)
- [Health and Physical Education/Fitness, Other](#)
- [Sport and Fitness Administration/Management](#)
- [Sports Studies](#)

