

## **ES 514: Applied Electromyography**

### **HEALTH, EXERCISE SCI & RECREATION MGMT**

Introduction to the theoretical basis and practical application of electromyography (EMG) in the study of human motion. Topics include the electrophysiological basis of muscle actions and the EMG, mechanical properties of muscle, EMG recording and processing methods, and applications of EMG to the study of human motion.

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

### **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](#)
- [Socio-Psychological Sports Studies](#)
- [Sport and Fitness Administration/Management](#)

