

# Eastern Illinois University – Department of Kinesiology and Sports Studies

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## KSS 5250 – Exercise Electrocardiography – 3 credit hours

Syllabus for Fall 2016

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Instructor: Jake Emmett, Ph.D.

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Office Hours: 10-11 M & W, 9-10 T, & R.

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**Catalog Course Description:** The course is designed to instruct the student in the basics of the normal and abnormal resting and exercise electrocardiogram. Involves lecture experiences and intensive investigation of documented ECG-GTX case studies.

### Learning Objectives:

- Understand basic electrophysiology of myocardial tissue
- Understand the factors that contribute to a normal ECG patterns at rest and during exercise.
- Know the criteria and identify the characteristics of a normal resting and exercise ECG
- Identify the characteristics of abnormal resting and exercise ECG

### Course Material:

Textbook: Levine, S., Coyne, B., and Colvin, L. (2016). Clinical Exercise Electrocardiography. Jones and Bartlett.

### Course Outline and Schedule:

Week 1	Heart Structure and Function
Week 2	Basic ECG Concepts and Systematic Interpretation
Cardiovascular Function and ECG Basics Exam (~Sep 17th)	
Week 3	Sinus Rhythms
Week 4	Chamber Enlargements
Weeks 5-6	Atrioventricular Blocks
Resting ECG Midterm Exam (~Oct 23rd)	
Week 7	Bundle Branch Blocks
Week 8	Ventricular Arrhythmias
Week 9-10	Supraventricular Arrhythmias
Weeks 11-12	Myocardial Ischemia and Infarction
Comprehensive Resting ECG Exam (~Nov 15th)	
Week 13	Cardiovascular Pathophysiology
Week 14	Pharmacological Agents
Week 15	Rapid ECG Interpretation
Rapid ECG interpretation Exam	

(Note: Schedule subject to change)

**Assignments:**

Quizzes:	10 points (may be unannounced)
Exams:	50 points each
ECG Simulator Exam:	20 points

**Grading Policy:**

A $\leq$ 90% of total points
B 80-89% of total points
C 70-79% of total points
D 60-69% of total points
F < 60% of total points

**General Information/Policies**

- **Academic integrity** - Students are expected to maintain principles of academic integrity and conduct as defined in EIU's Code of Conduct (<http://www.eiu.edu/judicial/studentconductcode.php>). Violations will be reported to the Office of Student Standards.
- **Students with disabilities** - If you are a student with a documented disability in need of accommodations to fully participate in this class, please contact the Office of Student Disability Services (OSDS). All accommodations must be approved through OSDS. Please stop by Ninth Street Hall, Room 2006, or call 217-581-6583 to make an appointment.
- **The Student Success Center** - Students who are having difficulty achieving their academic goals are encouraged to contact the Student Success Center ([www.eiu.edu/~success](http://www.eiu.edu/~success)) for assistance with time management, test taking, note taking, avoiding procrastination, setting goals, and other skills to support academic achievement. The Student Success Center provides individualized consultations. To make an appointment, call 217-581-6696, or go to 9<sup>th</sup> Street Hall, Room 1302.