

## **CPMS 5101 CLINICAL PHYSIOLOGY AND MOVEMENT SCIENCE**

### **Instructor:**

Jürgen Konczak

Professor

School of Kinesiology

### **Fall 2016**

Monday: 1:25pm –  
3:55pm

Akerman Hall 211

### **Course Description**

This 3-credit survey course gives students an overview into the fields of clinical physiology and clinical movement science. It provides a basic understanding of clinical issues related to human sensorimotor function and physiological parameters of human performance. It presents the current research methods to study human movement and physiological function and explains how these methods produce clinically relevant research findings. The course is designed to contrast normal development of human function throughout the lifespan and outlines relevant clinical issues of each life phase, such as childhood obesity or rehabilitation after stroke. This interdisciplinary course is suitable for students and professionals in such diverse fields as **bioengineering, kinesiology, mechanical engineering, neuroscience, physical therapy, physiology, psychology, public health, and occupational therapy.**

*“I liked how there was no textbook and instead the class was taught by experts in the field.”*

### **Q: What will I learn?**

**A:** At the end of the course you will

- be able describe and discuss the various clinical methods used for assessing human motor function and human physiological function and performance across the lifespan.
- know the changes that occur in the skeletal, muscle, cardiovascular, pulmonary, and neural systems throughout the human lifespan.
- know how development, aging and disease processes affect human sensorimotor function and performance throughout the lifespan.

This course is offered  
through the

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Clinical Movement Science

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