

# Kinesiology Courses

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## Courses

### **KIN 5164. Advanced Topics in Kinesiology.**

Course focuses on advanced topics and/or current issues in Kinesiology.

**Department:** Kinesiology

**1 Credit Hour**

**1 Total Contact Hour**

0 Lab Hours

1 Lecture Hour

0 Other Hours

**Major Restrictions:**

Restricted to majors of KIN

### **KIN 5178. Directed Individual Studies.**

Directed Individual Studies (0-0-1) Individual investigation of specific topics of interest. May be repeated for credit. Prerequisite: Department approval and program director's approval.

**Department:** Kinesiology

**1 Credit Hour**

**1 Total Contact Hour**

0 Lab Hours

0 Lecture Hours

1 Other Hour

### **KIN 5264. Advanced Topics in Kinesiology.**

Course focuses on advanced topics and/or current issues in Kinesiology.

**Department:** Kinesiology

**2 Credit Hours**

**2 Total Contact Hours**

0 Lab Hours

2 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of KIN

### **KIN 5361. Biomech. Tech & Basis of Sport.**

Biomechanical Basis of Sport (3-0) Advanced level kinesiological, mechanical, and physiological aspects as a basis for physical education. Prerequisite: Department approval. Course fee required.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (KIN 4313 w/D or better)

### **KIN 5364. Advanced Topics in Kinesiology.**

Advanced Topics in Kinesiology (3-0) Course focuses on advanced topics and/or current issues in Kinesiology. May be repeated for credit.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5368. Coronary Intervention.**

Coronary Intervention (2-3) The primary focus of this course is in electrocardiographic interpretation and exercise stress testing of at risk populations. Additional discussion topics include the anatomy and physiology of the cardiovascular system, electrophysiology, pathology of cardiovascular disease, risk factor analysis, prevention programs, and cardiac rehabilitation programs. Prerequisite: Department approval.

**Department:** Kinesiology

**3 Credit Hours**

**5 Total Contact Hours**

3 Lab Hours

2 Lecture Hours

0 Other Hours

**KIN 5369. Phys Activities-Young Children.**

Physical Activities For Young Children (3-0) A study of the various physical activities pursued by young children ages 4 to 11 along with the contribution made by each to physical development.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5370. Practicum in Exercise Science.**

Practicum in Exercise Science (0-0-6) Assignment to professionals in the field of exercise or therapy in the community for a minimum of 90 clock hours. A daily log of experience will be required.

**Department:** Kinesiology

**3 Credit Hours**

**6 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

6 Other Hours

**KIN 5371. Measure Tech in Exer Physiolog.**

Measurement Techniques in Exercise Physiology (3-0) Techniques and equipment used in assessing strength, cardiorespiratory efficiency and other components of physical fitness. Prerequisite: Department approval. Course fee required.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5372. Advanced Exercise Physiology.**

Advanced Exercise Physiology (3-0) Advanced study of the physiological adaptations that occur in response to acute and chronic exercise. Examination of these changes as they affect training, performance, and health. Prerequisite: Department approval. Course fee required.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5373. Motor Neuroscience.**

Motor Learning and Control (3-0) Current theories and concepts involved in the processes of motor skill acquisition and performance from a behavioral perspective. Major topics include the methodology of studying motor performance, information processing, sensory and central contributions to motor control, coordination, individual differences, conditions of practice, feedback, retention and transfer and the learning process. Practical application of principles is emphasized. Prerequisite: Department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5374. Measure Tech in Biomech Analys.**

Measurement Techniques in Biomechanical Analysis (3-0) An in-depth study of the methods used in the biomechanics laboratory. Topics include techniques related to cinematography, video analysis, force transducers, data filtering and collection of human body characteristics. Prerequisite: Department approval. Course fee required.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5375. Adv. Sci. Prin. Str. & Cond..**

Advanced Scientific Principles in Strength Training and Conditioning (3-0) Advanced concepts and theory related to maximizing human performance. Analysis of the conceptual, theoretical, and technical considerations of assessing, designing, and implementing strength training and conditioning programs with particular focus on analyzing and applying contemporary periodization concepts. Prerequisite: Department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**KIN 5378. Directed Individual Studies.**

Directed Individual Studies (0-0-3) Individual investigation of specific topics of interest. May be repeated for credit. Prerequisites: Program director's approval and department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**KIN 5379. Graduate Research.**

Graduate Research (0-0-3) Department approved research in special areas of student or faculty interest. Prerequisite: Program director's approval and department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**KIN 5381. Muscular Physiology & Health.**

Muscle Physiology and Health (KIN 5371) covers physiological and biological concepts associated with cardiac and skeletal muscles as well as the mechanisms of cardiac and skeletal muscle homeostasis in response to disease, injury, and exercise. Keywords: Comorbidities, Heart, Physical Activity

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of KIN

**KIN 5397. Graduate Projects.**

Graduate Projects (0-0-3) Individual research or development of a project/proposal under the direct supervision of a graduate faculty member. Requires satisfactory completion of the course, including a written report and oral presentation. Prerequisite: Department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**KIN 5398. Thesis.**

Thesis (0-0-3) Initial work on the thesis. Prerequisite: Department approval.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**KIN 5399. Thesis.**

Thesis (0-0-3) Continuous enrollment required while work on the thesis continues. Prerequisite: KIN 5398.

**Department:** Kinesiology

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**Prerequisite(s):** (KIN 5398 w/P or better)