George Mason University
Graduate Course Approval/Inventory Form

Please complete this form and attach a copy of the syllabus for new courses. Forward it as an email attachment to the Secretary of the Graduate Council. A printed copy of the form with signatures should be brought to the Graduate Council Meeting. Complete the Coordinator Form on page 2, if changes in this course will affect other units.

Please indicate:  ___X___ NEW  ____ MODIFY  ____ DELETE

Local Unit: Health Science  

Graduate Council Approval Date:

Course Abbreviation: HSCI  

Course Number: HSCI 506

Full Course Title: Clinical Exercise Physiology

Abbreviated Course Title (24 characters max.): Clin Ex Phys

Credit hours: 3  

Program of Record: Health Science

Repeateable for Credit?  

D=Yes, not within same term  Up to hours

T=Yes, within the same term  Up to  hours

x=N=Cannot be repeated for credit

Activity Code (please indicate):  

___X___ Lecture (LEC)  ___ Lab (LAB)  ___ Recitation (RCT)

___ Studio (STU)  ___ Internship (INT)  ___ Independent Study (IND)  ___ Seminar (SEM)

Catalog Credit Format  3 : 3 : 0  

Course Level: GF(500-600) ___X___ GA(700+)

Maximum Enrollment: 20  

For NEW courses, first term to be offered: f 05

Prerequisites or corequisites:

Catalog Description (35 words or less) Please use catalog format and attach a copy of the syllabus for new courses:

Examines acute and chronic alterations/adaptations associated with exercise and training. The role of exercise therapy in prevention of disease as well as in the rehabilitation from disease across the lifespan. Particular emphasis on the role of exercise therapy in cardiorespiratory, musculoskeletal, and metabolic diseases.

For MODIFIED or DELETED courses as appropriate:

Last term offered:  

Previous Course Abbreviation:  

Previous number:

Description of modification:

APPROVAL SIGNATURES:

Submitted by:  

email:  

Department/Program:  

Date:  

College Committee:  

Date:  

Graduate Council Representative:  

Date:  


**Approval from other units:**

Please list those units outside of your own who may be affected by this new, modified, or deleted course. Each of these units must approve this change prior to its being submitted to the Graduate Council for approval.

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Graduate Council approval:  ______________________________________________ Date: ____________
Graduate Council representative: __________________________________________ Date: ____________
Provost Office representative: _________________ _______________________ Date: __________
Course Number:  HSCI 5XX

Course Title:  Clinical Exercise Physiology

Prerequisites:  Bachelor’s degree, Anatomy & Physiology  (8credits) or permission of instructor

Credit Hours:  3: 3: 0

Faculty:  TBD (J. Metcalf, Ph. D.)

Course Description:
Examines acute and chronic alterations/adaptations associated with exercise and training. The role of exercise therapy in prevention of disease as well as in the rehabilitation from disease across the lifespan. Particular emphasis on the role of exercise therapy in cardiorespiratory, musculoskeletal, and metabolic diseases.

Course Objectives:
1. Examine contributions of exercise and training in the prevention and management of cardiorespiratory, musculoskeletal, and metabolic diseases.

2. Recognize the systemic consequences of dysfunction in any one of the major organ systems and how these may compromise the patient’s ability to exercise.

3. Synthesize a plan of exercise therapy aimed at rehabilitation of compromised organ systems.

4. Analyze the acute physiologic alterations associated with a single bout of exercise.

5. Analyze the physiologic adaptations concomitant to a program of exercise therapy.