Faculty
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Office phone: 703-993-7115
Email address: crobiso4@gmu.edu

Prerequisites/Corequisites
Graduate standing or permission of the instructor

University Catalog Course Description
Lecture, demonstration, and seminar experiences in applying research findings to understanding physiological function and effects of exercise on people.

Course Overview
Not Applicable

Course Delivery Method
This course will be delivered online (76% or more) using asynchronous format via the Blackboard learning management system (LMS) housed in the MyMason portal. You will log in to the Blackboard course site using your Mason email name (everything before @masonlive.gmu.edu) and email password. The course site will be available on Friday, August 26th.

Technical Requirements
To participate in this course, students will need to satisfy the following technical requirements:

- High-speed Internet access with a standard up-to-date browser, either Internet Explorer or Mozilla Firefox is required (note: Opera and Safari are not compatible with Blackboard).
- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- Students may be asked to create logins and passwords on supplemental websites and/or to download trial software to their computer or tablet as part of course requirements.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
  - Adobe Acrobat Reader
  - Window Media Player
  - Apple Quick Time Player
Expectations

• **Course Week:**
  Because asynchronous courses do not have a “fixed” meeting day, our week will start on Wednesday, and finish on Tuesday.

• **Log-in Frequency:**
  Students must actively check the course Blackboard site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least 3 times per week.

• **Participation:** Students are expected to actively engage in all course activities throughout the semester, which includes viewing all course materials, completing course activities and assignments, and participating in course discussions and group interactions.

• **Technical Competence:** Students are expected to demonstrate competence in the use of all course technology. Students who are struggling with technical components of the course are expected to seek assistance from the instructor and/or College or University technical services.

• **Technical Issues:** Students should anticipate some technical difficulties during the semester and should, therefore, budget their time accordingly. Late work will not be accepted based on individual technical issues.

• **Workload:** Please be aware that this course is not self-paced. Students are expected to meet specific deadlines and due dates listed in the **Class Schedule** section of this syllabus. It is the student’s responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.

• **Instructor Support:** Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Those unable to come to a Mason campus can meet with the instructor via telephone or web conference. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.

• **Netiquette:** The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students must always re-read their responses carefully before posting them, so as others do not consider them as personal offenses. **Be positive in your approach with others and diplomatic in selecting your words.** Remember that you are not competing with classmates, but sharing information and learning from others. All faculty are similarly expected to be respectful in all communications.

• **Accommodations:** Online learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

**Learner Outcomes or Objectives**
Upon completion of EFHP 610 students should be able to:

1. Describe the responses that occur during exercise in the body’s various physiological systems.
2. Describe the physiological changes that occur as a result of aging and explain how these changes affect performance.
3. Explain how gender differences affect performance.
4. Prepare and present research findings on a topic related to a specific area of exercise physiology.
5. Demonstrate the ability to critically review current research and connect findings to topics discussed in class.
Required Texts

Course Performance Evaluation
Students are expected to submit all assignments on time in the manner outlined by the instructor (e.g., Blackboard, Tk20, hard copy).

- **Assignments and Examinations**
  Written Examinations (4) - *Exams will be T/F, multiple-choice and short answer. Each exam will cover approximate one quarter of the semester’s material.*

  Article Discussions - *Students will respond to Discussion Board topics associated with posted research articles.*

  Quizzes and Assignments - *Periodic quizzes will be assigned throughout the modules.*

- **Course Performance Evaluation Weighting**
  Written Examinations 65%
  Article Discussions 15%
  Quizzes and Assignments 20%

- **Grading Policies**

  **Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>94 – 100</td>
</tr>
<tr>
<td>A-</td>
<td>90 – 93</td>
</tr>
<tr>
<td>B+</td>
<td>88 – 89</td>
</tr>
<tr>
<td>B</td>
<td>84 – 87</td>
</tr>
<tr>
<td>B-</td>
<td>80 – 83</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79</td>
</tr>
<tr>
<td>F</td>
<td>0 – 69</td>
</tr>
</tbody>
</table>

  Note: *Although a B- is a satisfactory grade for a course, students must maintain a 3.00 average in their degree program and present a 3.00 GPA on the courses listed on the graduation application.*

Professional Dispositions

Students are expected to exhibit professional behaviors and dispositions at all times.
Core Values Commitment

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: [http://cehd.gmu.edu/values/](http://cehd.gmu.edu/values/).

GMU Policies and Resources for Students

Policies

- Students must adhere to the guidelines of the Mason Honor Code (see [http://oai.gmu.edu/the-mason-honor-code/](http://oai.gmu.edu/the-mason-honor-code/)).

- Students must follow the university policy for Responsible Use of Computing (see [http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/](http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/)).

- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.

- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see [http://ods.gmu.edu/](http://ods.gmu.edu/)).

- Students must follow the university policy stating that all sound emitting devices shall be silenced during class unless otherwise authorized by the instructor.

Campus Resources

- Support for submission of assignments to Tk20 should be directed to tk20help@gmu.edu or [https://cehd.gmu.edu/api/tk20](https://cehd.gmu.edu/api/tk20). Questions or concerns regarding use of Blackboard should be directed to [http://coursessupport.gmu.edu/](http://coursessupport.gmu.edu/).

- The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing (see [http://writingcenter.gmu.edu/](http://writingcenter.gmu.edu/)).

- The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students’ personal experience and academic performance (see [http://caps.gmu.edu/](http://caps.gmu.edu/)).
• The George Mason University Office of Student Support staff helps students negotiate life situations by connecting them with appropriate campus and off-campus resources. Students in need of these services may contact the office by phone (703-993-5376). Concerned students, faculty and staff may also make a referral to express concern for the safety or well-being of a Mason student or the community by going to http://studentsupport.gmu.edu/, and the OSS staff will follow up with the student.

For additional information on the College of Education and Human Development, please visit our website https://cehd.gmu.edu/.

Class Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction, Energy</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>2</td>
<td>ATP, Phosphagen System, Carbohydrate Metabolism</td>
<td>Chapters 6 &amp; 7</td>
</tr>
<tr>
<td>3</td>
<td>Fat and Protein Metabolism</td>
<td>Chapters 6 &amp; 7</td>
</tr>
<tr>
<td>4</td>
<td><strong>Exam 1</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>The Cardiovascular System, Functional Capacity of the Cardiovascular System</td>
<td>Chapter 15 &amp; 17</td>
</tr>
<tr>
<td>6</td>
<td>Functional Capacity of the Cardiovascular System, Cardiovascular Regulation and Integration</td>
<td>Chapter 16</td>
</tr>
<tr>
<td>7</td>
<td>Pulmonary</td>
<td>Chapters 12, 13 &amp; 14</td>
</tr>
<tr>
<td>8</td>
<td><strong>Exam 2</strong></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Skeletal Muscle and Nerve Structure, Muscle Contraction</td>
<td>Chapters 18 &amp; 19</td>
</tr>
<tr>
<td>10</td>
<td>Muscle Contraction, Muscle Fiber Types, Muscle Adaptations</td>
<td>Chapters 19 &amp; 22</td>
</tr>
<tr>
<td>11</td>
<td><strong>Exam 3</strong></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Soreness and Fatigue</td>
<td>Chapter 25</td>
</tr>
<tr>
<td>13</td>
<td>Soreness and Fatigue</td>
<td>Chapter 25</td>
</tr>
<tr>
<td>14</td>
<td>Recovery from Exercise</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>15</td>
<td><strong>Exam 4</strong></td>
<td></td>
</tr>
</tbody>
</table>

Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

Assessment Rubric(s)

EFHP 610
### Journal Article Discussion Rubric

<table>
<thead>
<tr>
<th>Students will demonstrate understanding of the scientific process and critically evaluate published research in applied kinesiology</th>
<th>Exceeds Expectations (4 points)</th>
<th>Meets Expectations (3 points)</th>
<th>Below Expectations (2 points)</th>
<th>Unacceptable (0 points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The student’s comments are clearly connected to assigned readings, other course materials; addresses all required elements in the assignment; thoughtful and reflective posts.</td>
<td>The student’s comments are somewhat connected to assigned readings and/or other course materials; usually addresses all required elements in the assignment; somewhat thoughtful and reflective posts.</td>
<td>The student has difficulty making comments that are clearly connected to assigned readings or other course materials; frequently does not address all required elements in the assignment.</td>
<td>The student’s comments are not clearly connected to assigned readings, other course materials; does not address all required elements in the assignment.</td>
<td></td>
</tr>
</tbody>
</table>

| Quality of Writing and Proofreading | No spelling or grammar mistakes. Content easy to understand. | Few spelling or grammar mistakes. Content is generally easy to understand. | Many spelling or grammar errors. Content is difficult to understand. Inappropriate language used. | Content is illegible |