



COURSE OUTLINE

FIT206

Prepared: Lisa Mandra Approved: Bob Chapman

Course Code: Title	FIT206: APPLIED EXERCISE PHYSIOLOGY II
Program Number: Name	3040: FITNESS AND HEALTH
Department:	FITNESS & HEALTH PROMOTION
Semester/Term:	17F
Course Description:	This course is the second part of a two part series (Applied Exercise Physiology I and II). This course applies concepts learned in Applied Exercise Physiology I to how various environments, including hot, cold and altitude affect exercise and sport. It also applies concepts to how participation in exercise and sport affects various age groups and both genders. How ergogenic aids and common medications affect exercise will also be examined.
Total Credits:	3
Hours/Week:	3
Total Hours:	3
Prerequisites:	FIT155, PNG121
This course is a pre-requisite for:	FIT254, FIT255
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	<p>#1. Conduct assessments of fitness, well-being, and lifestyle for clients and effectively communicate assessment results.</p> <p>#2. Prescribe appropriate physical activity, fitness, active living, and lifestyle programs to enhance health, fitness, and well-being of clients.</p> <p>#5. Develop, implement, and evaluate activities, programs, and events which respond to identified needs and interests of clients and maximize the benefits of health, fitness, and well-being.</p> <p>#9. Implement strategies and plans for ongoing personal and professional growth and development.</p>
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p>



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- #7. Analyze, evaluate, and apply relevant information from a variety of sources.
- #8. Show respect for the diverse opinions, values, belief systems, and contributions of others.
- #9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
- #10. Manage the use of time and other resources to complete projects.
- #11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 50%,

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
In Class Activities	25%
Presentations	20%
Tests	55%

Books and Required Resources:

Physiology of Sport and Exercise by W. Larry Kenney
Publisher: Human Kinestics Edition: 6th
ISBN: 9781492546016

Course Outcomes and Learning Objectives:

Course Outcome 1.

Apply knowledge of physiological adaptations that take place within the human body while exercising during exposure to various environments, including altitude and hot and cold temperatures.

Learning Objectives 1.

- Describe how the body regulates body temperature when exposed to extreme heat
- Describe the physiological responses to exercising in the heat
- Identify the health risks and symptoms of heat-related illnesses during exercise in the heat
- Apply and explain current research practices regarding safe programming considerations when exercising in the heat
- Describe how the body regulates body temperature when exposed to extreme cold
- Describe the physiological responses to exercising in the heat
- Identify the health risks and symptoms of cold-related illnesses during exercise in the cold
- Apply and explain current research practices regarding safe programming considerations when exercising in the cold



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- Describe the environmental conditions at altitude
- Describe the physiological responses to exercising at altitude
- Identify the health risks and symptoms of altitude-related illnesses
- Apply and explain current research practices regarding safe programming considerations when exercising at altitude

Course Outcome 2.

Apply knowledge of exercise considerations and physiological differences between age groups and genders during sport and exercise.

Learning Objectives 2.

- Discuss physiological responses in children and adolescents compared with adults and older adults
- Discuss special issues that affect different age groups during exercise and explore safe practices to deal with the identified special issues
- Differentiate the physiological differences in males and females
- Discuss special issues that affect males and females during exercise and explore safe practices to deal with the identified special issues

Course Outcome 3.

Apply knowledge of how different ergogenic aids affect physiological adaptations that take place within the human body during exercise.

Learning Objectives 3.

- Identify the trainer's role in recommending ergogenic aids for sport performance to their clients
- Describe and explain the research process to identify products that have ergogenic properties
- Differentiate between nutritional, pharmacological, physiological, mechanical, and psychological aids
- Describe the physiological adaptations that occur while taking/using popular ergogenic aids
- Describe what the World Anti-Doping Code is and how athletes must comply
- Discuss the harm and consequences of using prohibited substances and techniques



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Course Outcome 4.

Apply knowledge of how different medications affect physiological adaptations that take place within the human body during exercise.

Learning Objectives 4.

- Discuss how different medications can affect how our physiological systems respond during exercise
- Identify when it is appropriate to refer, continue exercise, or stop exercise based on client medication intake

Course Outcome 5.

Apply knowledge of how different activities affect individual differences in performance and body composition and how nutrition choices affect individual performance in different sports.

Learning Objectives 5.

- Discuss how body composition affects performance in sport and exercise
- Discuss safe coaching techniques regarding weight standards
- Discuss how different nutritional choices may contribute to or inhibit increased performance

Course Outcome 6.

Demonstrate the ability to research and debate common issues in the field of exercise physiology to ultimately provide safe and accurate information to clients.

Learning Objectives 6.

- Research a topic of interest in the field of exercise physiology and explain the findings using appropriate references
- Debate a current issue in the field of exercise physiology and utilize appropriate references

Date:

Wednesday, August 30, 2017



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Please refer to the course outline addendum on the Learning Management System for further information.