

**George Mason University**  
**College of Education and Human Development**  
**Physical Activity for Lifetime Wellness**

**Aerobics and Basic Conditioning – 20139 – RECR 118 - 001**

**1 Credit Spring 2019**

**TR 10:30-11:45 am, January 22 – March 7, Fairfax/RAC**

**Faculty**

Name: Steve Gallagher

Office Hours: By appointment

Office Phone: 339-793-0317

Email Address: sgallag@gmu.edu

**Prerequisites/Corequisites**

None

**University Course Catalog Description**

Introduces aerobic fitness. Provides students with lectures and multiple cardiovascular workouts. Covers cardiovascular endurance, cardiovascular diseases, body composition, nutrition, and weight management. Teaches the use of cardiovascular equipment and designing an aerobic fitness program.

**Course Overview**

**Athletic attire is required for this class.** If you do not come prepared you will be marked as absent. Appropriate wear should include t-shirt/sweatshirt, shorts, sweatpants, athletic socks and proper athletic shoes. Jeans and any kind of sandal or open-toe shoes are not allowed in the gym or weight room. **Always check Blackboard before coming to class.**

Please be prepared to participate in activity first day of class.

**Cell phones/electrical devices are not permitted in class or on the weight room floor. There is no exception to this rule.**

Students are required to clean RAC equipment as required by RAC policy.

**Course Delivery Method**

This course is an activity- based course.

**Learner Outcomes or Objectives**

At the end of the course each student will be able to:

1. Maintain a bout of aerobic exercise at a target heart rate of 60 – 85% of maximum heart rate for at least 20 minutes.
2. Identify the three basic energy system pathways
3. Identify the seven basic training principles.
4. Define and calculate personal heart rate zones and determine personal target heart rate ranges to meet desired levels of exercise intensity.
5. Design an aerobic fitness plan that meets his/her current level of aerobic fitness

6. State and differentiate between at least three different ways to condition the body aerobically.
7. Identify at least five health benefits for regular cardiorespiratory exercise.
8. State at least one personal value of how aerobic conditioning contributes to lifetime fitness.

**Professional Standards:** Not Applicable

**Required Texts: None**

None. Readings will be posted on Blackboard as needed.

**Course Performance Evaluation**

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

**Assignments, Quizzes and Final Examination**

1. **Assignments** – There will be a total of four assignments scheduled throughout the semester. Assignments must be submitted to Blackboard (as applicable) on assigned due dates.
2. **Quizzes** – There will be a series of three multiple choice quizzes posted to Blackboard. Each quiz must be completed prior to the posted deadline to receive credit.
3. **Final Examination** – There will be a final examination posted to Blackboard at the conclusion of the semester. The final examination must be completed prior to the last day of class.

**Attendance/Lab Exercises**

Attendance and performance of lab exercises during class will be the most important component for grading. Students must be on time, attend the entire class and participate in assigned lab exercises to receive full credit for class attendance. Unexcused absences, late arrivals and lackadaisical performance could adversely affect your grade. (Absences are only excused by a doctor's note. The doctor's note must be emailed or presented immediately upon return to class. Text, emails, phone calls do not excuse an absence. Doctor's notes only excuse class participation and do not excuse completion of assignments, quizzes or the final examination.)

**Components for Final Grade**

Quizzes – 30 Points

Assignments – 50 Points

Final Examination – 20 Points

Attendance – 70 Points

Total Possible Points – 170 Points

**Grading Scale (%)**

A	90 – 100
B+	88 – 89.9
B	84 – 87.9
B-	80 – 83.9
C+	78 – 79.9
C-	70 – 73.9
D	60 – 69.9
F	0 – 59.9

## Professional Dispositions

See <https://cehd.gmu.edu/students/polices-procedures/>

### Class Schedule

#### Week 1 (January 22 and 24)

1. Class overview (syllabus)
2. Fitness screenings and assessments for body composition, posture, stability and mobility, balance, flexibility, muscular endurance and aerobic conditioning
3. ACSM Risk Stratification and classification
4. Physical Activity Readiness Questionnaire (Par Q)
5. Health benefits of regular cardiorespiratory conditioning
6. Energy pathways
7. Heart rate zones
8. Ventilatory thresholds
9. RPE
10. Guided discovery of types of aerobic exercise and basic conditioning options

#### Week 2 (January 29 and 31)

1. FITT (or FITT-VP) model
2. Equipment usage and safe practices
3. Exercise library
4. Guided discovery of types of aerobic exercise and basic conditioning options
5. Seven basic training principles (Individual Differences, Overcompensation, Overload, Adaptation to Imposed Demands, Use/Disuse, Specificity and General Adaptation System)
6. Dynamic warm-up and post-workout stretching
7. Workout log

#### Week 3 (February 5 and 7)

1. Guided discovery of types of aerobic exercise and basic conditioning options
2. Phases of cardiorespiratory training programming and progression (ACE IFT Model – aerobic-base training, aerobic-efficiency training, anaerobic-endurance training and anaerobic-power training)
3. Phases of movement and resistance training (ACE IFT Model - stability and mobility training, movement training, load training and performance training)
4. SMART goals
5. Interval training and different interval training options
6. Conditioning program design

#### Week 4 (February 12 and 14)

1. Workout on gym floor to establish, apply and refine individualized conditioning program (supervised for adherence to principles, form and technique)
2. Weight management and nutrition

#### Week 5 (February 19 and 21)

1. Workout on gym floor to apply and refine individualized conditioning program (supervised for adherence to principles, form and technique)
2. Periodization (undulating and linear progressions, macrocycles, mesocycles, and microcycles)
3. Importance of rest and active recovery

#### Week 6 (February 26 and 28)

1. Workout on gym floor to apply and refine individualized conditioning program (supervised for adherence to principles, form and technique)

2. Myofascial release

### **Week 7** (March 5 and 7)

1. Workout on gym floor to apply and refine individualized conditioning program (supervised for adherence to principles, form and technique)
2. Fitness reassessments and evaluations

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

### **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/>.

### **GMU Policies and Campus Resources for Students**

#### **Policies**

- Students must adhere to the guidelines of the Mason Honor Code (see <https://catalog.gmu.edu/policies/honor-code-system/> ).
- Students must follow the university policy for Responsible Use of Computing (see <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/>).
- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

#### **Campus Resources**

- Support for submission of assignments to Tk20 should be directed to [tk20help@gmu.edu](mailto:tk20help@gmu.edu) or <https://cehd.gmu.edu/aero/tk20>. Questions or concerns regarding use of Blackboard should be directed to <http://coursessupport.gmu.edu/>.
- For information on student support resources on campus, see <https://ctfe.gmu.edu/teaching/student-support-resources-on-campus>

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