#### GEORGE MASON UNIVERSITY School of Recreation, Health, and Tourism

## ATEP 300—Functional Anatomy - Section 002 (3 cr) Spring 2016

DAY/TIME:	T/H 9:00-10:15 a.m.	LOCATION:	BRH 148
INSTRUCTOR:	Heather Murphy, MS, ATC	EMAIL ADDRESS:	Hmurphy8@gmu.edu
OFFICE LOCATION:	Adjunct Facility Office	PHONE NUMBER:	704-993-2026
OFFICE HOURS:	By appointment	FAX NUMBER:	703-993-2025

# PREREOUISITES

**Prerequisite(s):** BIOL 124 - Human Anatomy and Physiology (4cr) **Corequisite(s):** BIOL 125 - Human Anatomy and Physiology (4cr)

# **COURSE DESCRIPTION:**

Increase students' knowledge and exposure to the structural and functional components of human anatomy including musculoskeletal origins, insertions, actions and innervations.

# **COURSE OBJECTIVES**

At the completion of this course students should be able to:

- 1. Identify terminology related to biomechanics.
- 2. Describe linear, angular, and other forms of motion used in sports.
- 3. Describe types of mechanical loads that act on the human body
- 4. Describe the effects of mechanical loads on bones.
- 5. Describe human skeletal articulations in relation to their movement capabilities.
- 6. Describe the relationship of the musculotendinous unit to muscle function.
- 7. Identify muscle function in producing upper and lower extremity movements.
- 8. Identify muscle function in producing movements of the spine.
- 9. Describe kinematic and kinetic variables of human movement.
- 10. Describe the stability of a body in relation to mechanical factors.
- 11. Identify anatomical landmarks, surface markings, and various soft tissue structures by palpating a live model.

#### NATURE OF COURSE DELIVERY

This course will be delivered in a face to face type of environment. This class will consist of both lecture and laboratory instruction with the use of live model situations.

# **REQUIRED READINGS**

Floyd, R.T. (2015). Manual of Structural Kinesiology, 19<sup>th</sup> edition. McGraw Hill.
Biel, A. (2014). Trail Guide to the Body, 5<sup>th</sup> Edition. Books of Discovery.

- 3) Biel, A. (2014). Trail Guide to the Body Student Workbook, 5<sup>th</sup> Edition. Books of Discovery.

4) Biel, A. (2010). Trail Guide to the Body Flashcards, 4<sup>th</sup> Edition. Books of Discovery. OR AnatomyMapp app from www.booksofDiscovery.com

# Attendance

Students are expected to be on time, attend all class meetings and be prepared for in class assignments, activities, laboratories and projects. Excused absences include the following: illness (must bring a receipt or note from a doctor), family death, athletic/academic event, and others at the discretion of the instructor. For known upcoming absences, students must contact the instructor at least one week in advance to the missed class to make up work. In the case of excused illness or some other unforeseen excused absence, the student must contact the instructor via e-mail or telephone. At the next attended class meeting the student will discuss material that is to be completed. *Students will have one week from the excused absence to complete any missed assignments.* It is the student's obligation to pursue any make-up work.

# **Class Participation**

If you do not attend class you cannot complete activities. Just being present in class does not mean you are an active and engaged participant in activities taking place that day. Be an active participant in all activities. *You can only make up an in-class activity if you have <u>pre-approved</u> <i>absence or proof of illness.* 

## Dress

During the laboratory section of the course, students will be asked to wear appropriate clothing to expose various body parts for the purposes of practicing the application of various palpation skills. Tank tops and sports bras/bathing suit tops will be required when topics focus on the upper body. Shorts will be required will be required when topics focus on the lower body.

#### **Technology Use during Class**

As per GMU policy, all sound emitting technology is required to be turned off during the class meeting time. Additionally, *NO laptop computers, iPads, E-Tablets, Pagers, etc* will be permitted for use during class time; the exceptions are for use during presentations/projects, and technology deemed as necessary by the Office of Disability Services. Students utilizing various technology devices during class will be asked to leave class and will not be permitted to complete course work or receive any points for assignments that day.

#### **Academic Load**

Although many students must work to meet living expenses, employment and personal responsibilities are not a consideration for missed classes, late or incomplete assignments, the course content, or the course schedule (see <a href="http://catalog.gmu.edu">http://catalog.gmu.edu</a>). Student employment does not take priority over academic obligations. It is recognized that many students need to work in order to meet living expenses, however, there are distinct guidelines for students in terms of the number of credit hours which should be attempted based on how many hours per week a student has outside employment. For additional information on the subject, please see the GMU Academic Catalog (<a href="http://catalog.gmu.edu/content.php?catoid=17&navoid=1274#academicload">http://catalog.gmu.edu/content.php?catoid=17&navoid=1274#academicload</a>). Students who fail to observe these guidelines may expect no special consideration for academic problems arising from the pressure of employment.

#### **E-mail Correspondence**

Only messages that originate from a George Mason University address will be accepted. The following is an appropriate professional format: Dear Ms. Murphy, *(Beginning salutation)* 

I am looking forward to your class. (Text body)

Regards, *(Ending Salutation)* Heather Murphy *(Your name)* 

## **EVALUATION**

Students will be evaluated on content standards (knowledge gained) and performance (demonstration of the content). Content standards will be assessed via written assignments, quizzes, and exams. Performance will be assessed through completion of class participation activities and competency testing.

## **In-Class Activities**

Students will turn in class activities for attendance and participation points. Each class activity is worth 2 points each. Students are only able to complete the activities if they are present in class.

## Quizzes

As indicated on the Course Calendar, a quiz will be given at the beginning of class for the required reading. This will be a brief multiple choice and true-false assessment of your knowledge from the reading. If you are late to class, you cannot make up the quiz at the end of class.

## Written Examinations

Three written examinations will be administered. The format of the examinations will be multiple choice, true/false, short answer, matching, and fill in the blank type questions. Each of the examinations will test material covered during the prior class meetings and previous reading assignments. Exams will also cover material in the textbook and activities completed during class sessions.

## **Palpation Examinations**

Three assessments based on the palpation labs. There will be origins, insertions, muscle bellies and bony landmarks are covered. This is a timed assessment that is completed in real time on a live model.

#### In-Class Activities & Student Work Book Assignments

In-class activities will be assigned during the class meeting and due at the end of the course meeting. Student work book assignments are listed on the syllabus and will be submitted at the beginning of the corresponding class meeting time. You MUST follow the directions and complete all student workbook requirements: it is says to color, label, etc you must complete for credit. Colored pencils or markers are needed.

#### NO late assignments will be accepted!

Evaluation Type	Number	<b>Points each</b>	<b>Total points</b>	
In-class Activities	14	2		28
Student Work Book Assignments	10/11	5		50
Quizzes	12	10		120
Quiz	1	12		12
Written exams	3	50		150
Palpation exams	3	50		150
			TOTAL POINTS	500

# **Grading Scale**

The student's final letter grade will be earned based on the following scale:

A: 465 – 500 pts. (93%) A:: 450 – 464 pts. (90%) B+: 435 – 449 pts. (87%) B: 415 – 434 pts. (83%) B-: 400 – 414 pts. (80%) C+: 385 – 399 pts. (77%) C: 365 – 384 pts. (73%) C-: 350 – 364 pts. (70%) D: 315 – 349 pts. (63%) F: < 315

# TENTATIVE COURSE SCHEDULE

DATE	TENTATIVE TOPIC	READING ASSIGNMENT	QUIZ	ASSIGNMENT
1-19	Introduction to course and the Study of Kinesiology, (Review)	ASSIGNMENT		#1
1-21	Anatomical direction terminology, Body regions, Planes, Axes, Skeletal system, Bone type/features/markings	F: Chapter 1, pg1-15 TG:pg 20-22, 32-34 SWB#1: 6, 7, 8, 14, 15	#1	#2
1-26	Types of Joints, Joint motion, movements & terminology, movement icons, physiological movements vs accessory	F: Chapter 1, pg 15-27 TG:pg 23-31 SWB#2: 9, 10, 11, 12, 13	#2	#3
1-28	Muscle names, contractions, roles, determination of muscle action	F: Chapter 2, pg 35-48 TG:pg 35-37	#3	#4
2-2	Neuromuscular system, dermatome/myotome	F: Chapter 2, pg 48-62 TG:pg 42 SWB#3: 4, 16, 17, 18, 23	#4	#5
2-4	Written Examination #1			
2-9	Shoulder girdle; Palpation Intro Lecture	<b>F:</b> pg Chapter 4, 89-104 <b>TG:</b> 1-18, 46-50, 61-62, 65-66	#5	#6
2-11	Shoulder Girdle Palpation	<b>TG:</b> pg 46-59, 68-70, 82- 88, 102 <b>SWB#4:</b> pg 1-2, 5, 25-26, 28-30, 32		
2-16	Shoulder Joint Lecture	F:pg Chapter 5, 111-135 TG:pg 46, 48-50, 61-65, 100, 102-103	#6	#7
2-18	Shoulder Joint Palpation	<b>TG:</b> pg 46-51, 59-60, 67- 81, 89-94, 99, 104-106, 274 <b>SWB#5:</b> pg 27, 31, 33-50		
2-23	Elbow: Radioulnar Joint Lecture	<b>F:</b> Chapter 6, 143-162 <b>TG:</b> pg 108, 110-112	#7	#8
2-25	Wrist and Hand joint lecture	F: Chapter 7, pg 169-201 TG:pg 116-119, 108, 110- 112, 119-120, 127-131, 149	#8	#9
3-1	Elbow, Wrist and Hand Palpation	<b>TG:</b> pg 95-98, 106, 108, 113-118, 127-130, 132- 133, 147-148, 160-162		
		TG:pg 109, 116, 118-126, 134-166 SWB#6:pg 52-55 SWB#7:pg 56-82		
3-3	Review For Test		#9	
3/7-10	Spring Break			
3-15	Written Exam #2	1		

Joint Lecture	<b>F:</b> Chapter 9, pg 229-266	#10	
	TG:pg 276-283	#10	#10
ee Lecture	<b>F:</b> Chapter 10, pg 273-287 <b>TG:</b> pg 305, 344-345, 347- 348, 392-392	#11***	#11
Joint Palpation h Palpation	TG:pg 284-295, 315-342 SWB#8: 143-159 TG:pg 306-314, 350-353, 394-397 SWB#9: pg 160-177		
nkle and Foot Lecture	<b>F:</b> Chapter 11, pg 293-323 <b>TG:</b> pg 246	#12	#12
nkle and Foot Palpation	<b>TG:</b> pg 356-365, 371-391, 398-405 <b>SWB#10:</b> pg 179-208		
ll Column Lecture	<b>F:</b> Chapter 12, pg 329-356 <b>TG:</b> pg 168, 170-174, 188- 195, 240-243	#13	#13
Il Column Palpation	<b>TG:</b> pg 169, 175-187, 196- 223, 244-249 <b>SWB#11:</b> pg 85-117		
am		#14	
#3			
m #2			
Comprehensive Palpation Exam #3 1			
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*Note:* Faculty reserves the right to alter the schedule as necessary.

# Student Expectations

Students must adhere to the guidelines of the George Mason University Honor Code [See http://oai.gmu.edu/the-mason-honor-code-2/

• Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <u>http://ods.gmu.edu/</u>].

• 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 George Mason University 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 must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.

# Campus Resources

• 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 <u>http://caps.gmu.edu/</u>].

• 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 <u>http://writingcenter.gmu.edu/</u>].

For additional information on the College of Education and Human Development, School of Recreation, Health, and Tourism, please visit our website [See <u>http://rht.gmu.edu</u>].

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.



# Student Acknowledgement of Syllabus

I, \_\_\_\_\_, by signing below, attest to the following:

\*I have read the course syllabus for ATEP 300 in its entirety, and I understand the policies contained therein. This syllabus serves as a binding contract for ATEP 300 between me and the instructor.

\*I have a clear understanding of the due dates for assignments and examinations, and I accept responsibility for the material.

\*I am aware that failure to submit assignments by the dates assigned will result in no points awarded as late work will not be accepted.

\*I understand the instructor reserves the right to alter the provided schedules as necessary and I am responsible for the assignments and examination dates for the most current version of the syllabus schedule.

\*I accept responsibility for reading announcements that are sent to me via e-mail through Blackboard; it is my responsibility to access my Blackboard e-mail for messages, or forward Blackboard e-mail as per the directions provided in the syllabus.

(Signature) (Date) (Student Copy: This copy should remain attached to your syllabus)

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(Signature)

(Date)

(Instructor Copy: Submit to the instructor at the end of the first class meeting)