

University of Florida
College of Public Health & Health Professions Syllabus
OTH3413 Applied Kinesiology (3 credit hours)
Fall 2025
Delivery Format: On-Campus
E-Learning - Canvas

Instructor Names:

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Office Hours: Thursday, 2:00-3:00 and 4:00-5:00 pm. Please email us if you will be attending and which instructor you'd like to meet with. We are happy to meet at other times if those don't work for you.

Preferred Course Communications: Email or Canvas message

PURPOSE AND OUTCOME

Course Overview

Kinesiology is the science of human movement. The course content will include a background in the anatomy and physiology of bones, joints and muscles, and a detailed analysis of the functional anatomy of each segment of the body.

Course Objectives and/or Goals

By the end of this course, a successful student will be able to:

1. Define and describe basic kinesiological concepts (e.g., planes/axes of movement, types of joint movements, levers, how muscles function, etc)
2. Identify the major muscles of the body and explain their primary contributions to movement
3. Acquire basic knowledge of how a goniometer is utilized to measure joint angles
4. Define and describe basic concepts and terminology relating to posture, balance, lifting, reaching, grasping and walking.
5. Analyze an individual's performance of a given activity as evidenced by correctly:
 - a. describing the movement(s) occurring at joints throughout the body
 - b. describing the types of muscle contractions occurring during movement
 - c. identifying the muscular agonist(s), antagonist(s) and synergist(s) contributing to the movement
6. Analyze a given activity as evidenced by correctly:
 - a. identifying the movement(s) necessary to perform the activity
 - b. describing the types of muscle contractions necessary to perform the activity
 - c. identifying the muscular agonist(s), antagonist(s) and synergist(s) necessary to perform the activity
7. Compare and contrast "normal" human movement to "abnormal" movement caused by selected pathological conditions.

DESCRIPTION OF COURSE CONTENT

Topical Outline/Course Schedule

Date	Topic	Readings (2 nd edition)	Readings (3 rd edition)	Pre-class quiz
Thurs Aug 21	Intro			
Tues Aug 26	Intro	Chapters 1 and 2	Chapters 1 and 2	1
Thurs Aug 28	Bone	Chapter 3	Chapters 3 and 4	2
Tues Sept 2	Bone			
Thurs Sept 4	Joint	Chapters 5 and 6	Chapters 6 and 7	3
Tues Sept 9	Joint			
Thurs Sept 11	Muscle	Chapters 10-14	Chapters 12-15, 17	4
Tues Sept 16	Muscle			
Thurs Sept 18	Spine	4.1, 4.2, 4.3, Chapter 7, 15.8-15.11	5.1-5.3, Chapter 8, 11.8-11.11	5
Tues Sept 23	Exam 1 – Intro, Bone, Joint, Muscle			
Tues Sept 25	Pelvis and Hip	4.5, 8.1 – 8.11, 15.12	5.4-5.5, 9.1-9.11, 11.12	6
Tues Sept 30	Spine/Pelvis/Hip			
Thurs Oct 2	Knee/Ankle/Foot	4.1, 4.2, 4.3, Chapter 7, 15.8-15.11	5.1-5.3, Chapter 8, 11.8-11.11	7
Tues Oct 7	Knee/Ankle/Foot			
Thurs Oct 9	Shoulder Girdle	4.10, 9.1-9.6, 15.2, 15.3	5.9-5.10, 10.1-10.6, 11.1-11.3	8
Tues Oct 14	Exam 2 – Spine, Pelvis, Hip, Knee, Ankle, Foot			
Thurs Oct 16	Shoulder Girdle	4.10, 9.1-9.6, 15.2, 15.3	5.9-5.10, 10.1-10.6, 11.1-11.3	
Tues Oct 21	Elbow and Forearm	4.11, 4.12, 9.7-9.9, 15.4	5.11, 10.7-10.9, 11.4	9
Thurs Oct 23	Hand and wrist	4.12, 4.13, 9.10-9.16, 15.5-15.7	5.12, 10.10-10.16, 11.5-11.7	10
Tues Oct 28	Elbow/Forearm/Hand/Wrist	4.12, 4.13, 9.10-9.16, 15.5-15.7	5.12, 10.10-10.16, 11.5-11.7	10
Thurs Oct 30	Posture	Chapter 18	Chapter 20	11
Tues Nov 4	Gait & Balance			
Thurs Nov 6	In-class movement analysis activity			
Tues Nov 11	No Class – Veteran’s Day			
Thurs Nov 13	Exercise	Chapters 19 and 20	Chapters 22 and 23	12
Tues Nov 18	Group Presentations			
Thurs, Nov 20	Exercise			
Tues Nov 25	No Class - Thanksgiving			
Thurs Nov 27				
Tues Dec 2	Exam 3 – Shoulder Girdle, Elbow, Forearm, Hand, Wrist, Gait, Posture, Exercise			

Course Materials and Technology

This course uses Canvas, and exams are administered in Canvas using Lockdown Browser.

The textbook for this course is:

Kinesiology: The Skeletal System and Muscle Function
Joseph Muscolino

Additional readings for some topics will be posted on Canvas.

Instructional materials for this course consist of only those materials specifically reviewed, selected, and assigned by the instructor(s). The instructor(s) is only responsible for these instructional materials.

For technical support for this class, please contact the UF Help Desk at:

- helpdesk@ufl.edu
- (352) 392-HELP - select option 2
- <https://helpdesk.ufl.edu/>

Additional Academic Resources

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

Library Support: Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: [Visit the Student Honor Code and Student Conduct Code webpage for more information.](#)

On-Line Students Complaints: [View the Distance Learning Student Complaint Process.](#)

ACADEMIC REQUIREMENTS AND GRADING

Assignments

Your success at learning the course material will be assessed via exams, a movement analysis poster, an in-class movement analysis assessment, pre-class quizzes, and in-class mini-assignments. The specific assessments are listed below; dates can be found in the class schedule section of this syllabus.

Exams will be a combination of multiple choice and short answer questions. Exams are not cumulative, except in the sense that the material in each section of the course builds on the previous section of the course. Exams will be taken on canvas in the classroom, using Respondus browser.

The **Movement Analysis Poster** will require you to analyze the performance of a movement, and prepare a poster to explain your analysis to the class.

The **Movement Analysis In-Class Activity** will involve watching a video clip of an individual performing an activity, and identifying the movements, joints, and muscle actions involved in that activity. You will then watch a video clip of an individual with a disability performing the same movement to identify compensations.

Pre-class quizzes are intended to ensure that everyone is in the right mindset to approach a topic, and thus will test basic concepts from the readings or class slides for upcoming lectures. There will be one prior to

each topic. These quizzes will be open for one week. Because they are intended to ensure that you are prepared for the topic, they will not be available after class starts. However, only your best 10 quizzes will be counted in your grade, so if you miss one or two it will not affect your grade.

In-class assignments are designed to show that you can apply what you've learned. They'll sometimes require you to work in groups. Most classes will have in-class assignments. To calculate your final in-class assignment grade, I will drop your lowest two grades (including 0's for missed classes) and average the remaining assignment grades.

Grading

Assessment	Total value (points)	Total value (%)	Notes
Exam 1	75	21%	Basic concepts in kinesiology, bone, joint, and muscle
Exam 2	75	21%	Knee, ankle, foot, pelvis, hip, head, and spine
Exam 3	75	21%	Upper Extremity, Gait and Posture, and Exercise
Movement Analysis Presentation	25	7%	Group Oral Presentation
In-Class Movement Analysis Assessment	25	7%	In-Class Assessment in Canvas
Pre-class quizzes (12)	25	14%	12 quizzes, keep best 10 scores
In-class assignments	50	18%	Lowest 2 scores dropped, average the remaining scores.

Point system used (i.e., how do course points translate into letter grades).

Grading

Percent	Points Earned	Letter Grade
93-100	326-350	A
90-92	351-325	A-
87-89	305-314	B+
83-86	291-304	B
80-82	280-290	B-
77-79	270-279	C+
70-76	245-269	C
67-69	235-244	D+
63-66	221-234	D
60-62	210-220	D-
Below 60	0-209	E

Letter Grade	Grade Points
A	4.0
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
D-	0.67
E	0.0
WF	0.0
I	0.0
NG	0.0
S-U	0.0

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Policy Related to Make up Exams or Other Work

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Please note: Any requests for make-ups due to technical issues MUST be accompanied by the UF Computing help desk (<http://helpdesk.ufl.edu/>) correspondence. You MUST e-mail me within 24 hours of the technical difficulty if you wish to request a make-up.

Policy Related to Required Class Attendance

Please note all faculty are bound by the UF policy for excused absences. For information regarding the UF Attendance Policy see the Registrar website for additional details:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

STUDENT EXPECTATIONS, ROLES, AND OPPORTUNITIES FOR INPUT

Academic Integrity

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

<http://gradschool.ufl.edu/students/introduction.html>

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

Recording Within the Course:

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

Policy Related to Guests Attending Class:

Only registered students are permitted to attend class. However, we recognize that students who are caretakers may face occasional unexpected challenges creating attendance barriers. Therefore, by exception, a department chair or his or her designee (e.g., instructors) may grant a student permission to bring a guest(s) for a total of two class sessions per semester. This is two sessions total across all courses. No further extensions will be granted. Please note that guests are **not** permitted to attend either cadaver or wet labs. Students are responsible for course material regardless of attendance. For additional information, please review the Classroom Guests of Students policy in its entirety. Link to full policy:

<http://facstaff.php.ufl.edu/services/resourceguide/getstarted.htm>

Online Faculty Course Evaluation Process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

SUPPORT SERVICES

Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, it is strongly recommended you register with the Dean of Students Office <http://www.dso.ufl.edu> within the first week of class or as soon as you believe you might be eligible for accommodations. The Dean of Students Office will provide documentation of accommodations to you, which you must then give to me as the instructor of the course to receive accommodations. Please do this as soon as possible after you receive the letter. Students with disabilities should follow this procedure as early as possible in the semester. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The **Counseling and Wellness Center** 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- **U Matter We Care** website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The **Student Health Care Center** at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789 <http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>
- **University Police Department:** [Visit UF Police Department website](#) or call 352-392-1111 (or 9-1-1 for emergencies).
- **UF Health Shands Emergency Room / Trauma Center:** For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; [Visit the UF Health Emergency Room and Trauma Center website](#).

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

Inclusive Learning Environment

Public health and health professions are based on the belief in human dignity and on respect for the individual. As we share our personal beliefs inside or outside of the classroom, it is always with the understanding that we value and respect diversity of background, experience, and opinion, where every individual feels valued. We believe in, and promote, openness and tolerance of differences in ethnicity and culture, and we respect differing personal, spiritual, religious and political values. We further believe that celebrating such diversity enriches the quality of the educational experiences we provide our students and enhances our own personal and professional relationships. We embrace The University of Florida's Non-Discrimination Policy, which reads, "The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act." If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see your instructor or refer to the Office of Multicultural & Diversity Affairs website: www.multicultural.ufl.edu