

KINE 3112 PHYSIOLOGY OF EXERCISE LABORATORY

Department of Health & Kinesiology
The University of Texas at Tyler

Course Syllabus

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**Instructor:** Scott Spier, Ph.D.

**Office:** Herrington Patriot Center (HPC) 2186 (Inside the Exercise Physiology Lab)

**Office hours:** W 12:30-2:30 p.m. or by appointment (call or email to schedule)

**Email:** [sspier@uttyler.edu](mailto:sspier@uttyler.edu) (do NOT include “*patriots*” in email address; it won’t be delivered to me)

**Phone:** 903-566-7427

**Website:** All course materials, lectures, and announcements will be provided in **Canvas**

**Meets:** Section 001 T 2-4 / Section 002 W 10-12 / Section 003 Th 2-4 (online assignments required)

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ABOUT THIS COURSE

The goal of this course is to complement KINE 3311 by (a) reinforcing basic exercise physiology concepts via application, (b) increasing awareness of laboratory tests and measurements commonly used in exercise physiology studies of humans, (c) developing selected laboratory skills, and (d) practicing collection, evaluation, and reporting of data.

COURSE PREREQUISITES/COREQUISITES

Prerequisites: BIOL 2301/2101, BIOL 2302/2102, KINE 3306

Corequisite: KINE 3311 Physiology of Exercise (lecture)

STUDENT LEARNING OUTCOMES

The students who successfully completes this course will:

- Be able to demonstrate laboratory skills commonly used in exercise testing;
- Be able to apply exercise physiology concepts to real-world examples;
- Be able to explain selected physical fitness test procedures and results of fitness tests in relation to norms;
- Be able to describe the importance of accurate data and limitations of collection of data from human subjects in research related to problems in exercise physiology.

COURSE MATERIALS

NOT required: Textbook (various readings will be distributed via Canvas)

Recommended: Bound notebook for taking notes during lab sessions

Required: Exercise clothing and athletic/running shoes

Technology: Minimum technological requirements can be found in the *UT Tyler Student Resources* link in the **Getting Started** module in Canvas.

COURSE WEBSITE

Course content will be delivered through Canvas. Students can access Canvas through the UT Tyler Logins link at the top of the UT Tyler main website (you will need your ID and password). Important class resources, including the syllabus, detailed course schedule, announcements, and external links, as well as learning modules will be accessed here. The GETTING STARTED tab on the course Home page will explain the different functions you will use in this class.

COURSE FORMAT

Students are responsible for accessing lab content in Canvas before the week's lab activity. In-class lab days will consist of reviewing concepts associated with the lab and participating in activities.

COVID-19 RISK MITIGATION

This course will be conducted in compliance with the COVID-19 risk mitigation policies in the [UT Tyler COVID-19 prevention procedures](#). Students are strongly encouraged to get vaccinated and/or wear face masks covering both nose and mouth and follow social distance guidelines at all times in indoor public settings (including classrooms and labs). Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class and should stay home and join class remotely. Students who have difficulty adhering to the COVID-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu.

COURSE GRADING

Your final grade will be determined by your performance on homework assignments (see below for details). There are a total of 100 points possible in the course. Grading will be based on a modified 10-point scale.

Lab Assignments	80 points	89.5 – 100%	A (excellent)
Lab Exam	10 points	79.5 – 89.49	B (above average)
Video Project	10 points	69.5 – 79.49	C (average)
		59.5 – 69.49	D (below average; fail)
		< 59.5%	F (well below average; fail)

Assignments: There will be an assignment for each lab activity. These assignments will not only test you on the background information for the lab, but also on the data that was collected for the lab activity that week. Assignments are due at 11:59 p.m. the night before the next week's lab period (i.e., you have one week to complete). There are 10 assignments; the lowest score will be dropped.

Lab Exam: There will be one cumulative lab exam near the end of the semester. This exam will test you on important concepts learned in lab throughout the semester. It will be an open-notes exam in Canvas.

Video Project: Students may work alone or in groups of up to 4 people to complete a lab project. The project will be a video demonstrating lab concepts learned throughout the semester. I encourage you to be as creative as you would like to be on this project, while still keeping it family-friendly. More details about the project and the rubric can be found in Canvas.

POLICY ON ACADEMIC DISHONESTY

At the University of Texas at Tyler, students and faculty are responsible for maintaining an environment that encourages academic integrity. Students and faculty members are required to report an observed or suspected case of academic dishonesty immediately to the faculty member in charge of an examination, classroom, or laboratory research project, or other academic exercise.

Since the value of an academic degree depends on the absolute integrity of the work done by the student for the degree, it is imperative that students maintain a high standard of individual honor in scholastic work. Scholastic dishonesty includes but is not limited to cheating, plagiarism, and collusion.

This class will be conducted in full compliance with the UT Tyler "no tolerance" policies concerning documented cases of plagiarism and/or academic dishonesty. Any act of cheating or plagiarized work submitted will result in a grade of zero for that assignment and further disciplinary action may be taken. Extreme cases or repeated violations may result in an F in the course and/or exclusion from the university. Please make use of the [UT Tyler Writing Center](#) if you have concerns about plagiarism.

COURSE EXPECTATIONS

Professionalism: Students are expected to display a professional attitude in all aspects of the course, including online discussions, communication with the instructor and classmates, being attentive during lectures, participating in lab activities, and being respectful to the instructor and classmates. Please do not participate in any activity that may be a distraction to others.

Quality of Work: ALL assignments will be graded with rigor appropriate for upper-level undergraduate course work. All written assignments should incorporate correct grammar, spelling, and a logical flow of ideas. I have little tolerance for bad grammar and spelling mistakes. Please use the Spelling & Grammar tool in your word processing software. All work submitted is expected to be original and your own. Any act of cheating or plagiarism will NOT be tolerated.

Late Work: Assignment instructions and due dates will be clearly posted and students will be given adequate time to complete work. No assignments will be accepted past their deadlines.

Makeup Policy: Due to the participation element of this course, attendance is required. Making up missed work will be allowed ONLY according to University policies regarding attendance. Please be on time for your lab activity days.

Safety: All safety rules given in class or in Canvas must be followed. Disobeying these rules can lead to serious injury to you or your classmates.

Food and Drinks: No food or drink is allowed in the lab, other than water in a sealed non-glass bottle.

Technology: It is expected that each student is familiar with Canvas and proficient in Microsoft Word or Apple iWorks (or similar).

COMMUNICATION

Instructors are required to use students' Patriot account email addresses for email correspondence. Therefore, any email messages originating from me will be sent to your Patriots account. You can send me email from either your Patriots account or through Canvas. Any email you send should have your first and last name, your course and section number (e.g., KINE 3112.001), and proper punctuation. Failure to do so may delay the response time. I will try to respond to appropriately addressed emails within 1-2 business days.

TECHNICAL SUPPORT

For technical problems with Canvas, contact **UT Tyler 24/7 Canvas Support**, which can be accessed by clicking **Help** at the bottom of the Global Navigation menu on the far left side of the browser window.

For login/password problems or support for other technical issues, contact Campus Computing Services in the Business Building (BUS 101) at 903-565-5555 or itsupport@uttyler.edu.

COPYRIGHT

All handouts used in this course, including those delivered via Canvas, are copyrighted. The term handouts refers to all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, assignment sheets, recorded lectures, outlines, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, students do not have the right to copy or distribute the materials, unless I expressly grant permission.

TENTATIVE COURSE SCHEDULE

Note: The following schedule is *tentative*. It may be adjusted, as needed, during the semester to better serve the educational needs of those enrolled in the class. Some labs may be moved online. Some lab activities may change. Any modifications to the schedule will be posted in the Canvas Announcements.

*For all lab activities, background information (including mini-lectures, reading assignments, and/or worksheets) must be reviewed in Canvas before the lab activity. The labs will be reserved for completion of activities only.

Week	Date	Lab Activity	Will you exercise?
1	Week of 1/10/22	Introduction to Exercise Physiology Lab (online)	x
2	Week of 1/17/22	Lab 1 - Lab Concepts/Pre-screening (online) Assignment: Lab Concepts quiz (Canvas); forms	x
3	Week of 1/24/22	Lab 2 - Muscle Contraction/EMG Activity Assignment: EMG (Canvas)	✓ (Very light)
4	Week of 1/31/22	Lab 3 - ACSM Metabolic Equations Assignment: Work & Power (Canvas)	x
5	Week of 2/7/22	Lab 4 - Anaerobic Power/Capacity Tests Assignment: Anaerobic Power (Canvas)	✓ (Intense)
6	Week of 2/14/22	Lab 5 - Blood Lactate Response to Exercise Assignment: Blood Lactate (Canvas)	✓ (Moderate)
7	Week of 2/21/22	Lab 6 - VO₂ Response to Exercise Assignment: VO ₂ & Exercise (Canvas)	✓ (Intense)
8	Week of 2/28/22	Lab 7 - Heart Rate - VO₂ Relationship Assignment: HR - VO ₂ Relationship (Canvas)	✓ (Moderate)
	Week of 3/7/22	SPRING BREAK - NO LABS	
9	Week of 3/14/22	Lab 8 - Resting and Exercise Blood Pressure Assignment: Blood Pressure (Canvas)	✓ (Moderate)
10	Week of 3/21/22	Lab 9 - Elite Athlete Lab Assignment: Elite Athlete (Canvas)	✓ (Moderate)
11	Week of 3/28/22	Cumulative Lab Exam (online) Open-notes exam on lab topics	x
12	Week of 4/4/22	Work on project (see signup sheet for available lab times)	
13	Week of 4/11/22	Work on project (see signup sheet for available lab times)	
14	Week of 4/18/22	Completed projects due by 4/25/22 Submit Assignments via Canvas	
15	Week of 4/25/22	FINALS WEEK (NO LABS)	

IMPORTANT SEMESTER DATES

ACADEMIC CALENDAR 2021-2022						
Spring Semester 2022 – 15-Week Session						
JANUARY						
JANUARY 2022						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
<ul style="list-style-type: none"> 1 New Year's Day, all offices closed 3 First Day to File for Fall 2022 Graduation 7 Payment Deadline, 5:00PM CST 10 Classes Begin for 15-Week session Deadline to resolve outstanding items for Fall 2021 graduation 17 Martin Luther King, Jr. Holiday, all offices closed, no classes 24 Census Date Second drop for non-payment 						
FEBRUARY						
FEBRUARY 2022						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					
<ul style="list-style-type: none"> 1 Registration for Summer 2022 begins 2 Third drop for non-payment 14 Mid-Term Grade Rosters Open 15 Priority Filing Date for Summer 2022 Graduation 						
MARCH						
MARCH 2022						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
<ul style="list-style-type: none"> 1 Final Filing Deadline for Spring 2022 Graduation 7-12 Spring break for faculty and students TBD Last Day to enter Mid-Term Grades 18 Textbook orders due from Faculty for Summer and Fall 2022 28 Last day to withdraw from one or more 15-Week courses Last day to schedule thesis or dissertation defense for Spring 2022 Graduation 						
APRIL						
APRIL 2022						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
<ul style="list-style-type: none"> 1 Registration for Fall 2022 begins for graduate/senior/Presidential Fellow/Honors/SI Leader/NCAA students 4 Registration for Fall 2022 begins for juniors 5 Registration for Fall 2022 begins for sophomores 6 Registration for Fall 2022 begins for freshmen 11 Last day to submit completed thesis or dissertation for Spring 2022 Graduation 15 Priority Filing Date for Fall 2022 Graduation 25 Study Day Final exams for classes meeting only on Monday and Monday/Wednesday classes meeting at 7:00 p.m. and later 26 Final grade rosters open for 15-Week session 26-30 Final exams 30 End of 15-Week session 						
MAY						
MAY 2022						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
<ul style="list-style-type: none"> 3 Final 15-Week grades due in Faculty Center by 12:00PM CST 7 Spring Commencement 30 Memorial Day holiday; all offices closed, no classes held 31 Deadline to resolve outstanding items for Spring 2022 graduation 						

UNIVERSITY POLICIES

(From the *Handbook of Operating Procedures* and the UT Tyler Website)

UT TYLER HONOR CODE

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

STUDENT RIGHTS AND RESPONSIBILITIES

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

CAMPUS CARRY

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

UT TYLER A TOBACCO-FREE UNIVERSITY

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

GRADE REPLACEMENT/FORGIVENESS

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

STATE-MANDATED COURSE DROP POLICY

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

DISABILITY SERVICES

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Tyler at Texas offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the *New Student* application. The **Student Accessibility and Resources (SAR)** office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.

STUDENT ABSENCE DUE TO RELIGIOUS OBSERVANCE

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

STUDENT ABSENCE FOR UNIVERSITY-SPONSORED EVENTS AND ACTIVITIES

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

SOCIAL SECURITY AND FERPA STATEMENT

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

EMERGENCY EXITS AND EVACUATION

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

STUDENT STANDARDS OF ACADEMIC CONDUCT

Disciplinary proceedings may be initiated against any student who engages in scholarly dishonesty, including but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or part to another person, taking an examination for another person, any act designed to give an unfair advantage to a student or the attempt to commit such acts.

- i. "Cheating" includes, but is not limited to:
 - a. Copying from another student's test paper;
 - b. using, during a test, materials not authorized by the person giving the test;
 - c. Failure to comply with instructions given by the person administering the test;
 - d. Possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have specifically been prohibited by the person administering the test;
 - e. Using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
 - f. Discussing the contents of an examination with another student who will take the examination;
 - g. Divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructor has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
 - h. Substituting for another person, or permitting another person to substitute for oneself to take a course, test, or any course-related assignment;
 - i. Paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, homework solution, or computer program;
 - j. Falsifying research data, laboratory reports, and/or other academic work offered for credit;
 - k. Taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonable should know that an unfair academic advantage would be gained by such conduct; and
 - l. Misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. "Plagiarism" includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the submission of it as one's own academic work offered for credit.
- iii. "Collusion" includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on academic dishonesty.
- iv. All written work that is submitted will be subject to review by plagiarism software.

UT TYLER RESOURCES FOR STUDENTS

- [UT Tyler Writing Center](mailto:writingcenter@uttyler.edu) (903.565.5995), writingcenter@uttyler.edu
- [UT Tyler Tutoring Center](mailto:tutoring@uttyler.edu) (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- [UT Tyler Counseling Center](tel:903.566.7254) (903.566.7254)