

est rn Sciences

Learning O utcomes /Schedule:

The goal of this course is to examine the physiological changes with advanced age, with attention to the relationship to the physical activity disuse and disease Upon completion of this course, students will be able to:

- Compare and contrast the theories bindmarkers of aging
- Understand the psychological changes associated **agithg**, and explain relationships among changes in different physiological systems
- Describe the impact of physiological changes on cognitive and physical function
- Compare and contrasthe role of disease, disuse and physical activity in altering the physiological changes with advanced age
- Articulate strategies to promote healthy aging

WEEK	TOPIC			
1	Introduction, Myths and Facts about Aging			
2	Theories and biomarkers of aging			
3	Stress and hormones			
4	Cardiorespiratory function			
5	Skeletal system			
6	Mid-term in class			
7	READING WEEK			
8	Neuromuscular system			
9	Brain health and cognition			
10	Disuse and disease			
11	Physical activity benefits and adaptations I			
12	Physical activity benefits and adaptations II			
13	Course wrapup and exam review			

^{*}Note: This is a tentative list of topics. Timing, order and/or topics may change.

Written Exams (65%): 2 exams each designed to be 2 hours in duraThænexam format consists of multiple choice and short answer. Exams will be delivered online. The midterm will be held during class time There will be no make- up mid-term exam. If the midterm is missed and appropriate documentation provided, the grade will be redistributed to the final exathe(ifenal exam will be worth 65%) he final exam will be scheduled for time be set by the registrar s office).

Quizzes (5%): Quizz es will be completed through QWWith a time limit. They will be available from Friday afternooruntil Tuesday atmidnighton weeks when they are assigned. Quiz dates are listed below. There will be no makeup quizzes. The best four out of five quizzes will count toward the final course grade.

Term Assignment (30%): -Students will choose a topic related to the physiology of aging and write an overview of the physiology and present evidence that supports (or not) the benefits of physical activity in maintainingiroproving the specific physiology selectredninimum of 5 primary, peerreviewed journal articles is required. The topic must be submitted via OWL by Friday, March 3 rd at 11:55 pm (2% deduction from the paper for failing to submit a topic on time). The paper will be Styped pages (doublespaced), excluding references, duby Friday, March 3 1st at 11:55 pm 30%. No (The 17 to 16 (3d2e)) 100 (3d2e) 1

You must use only your ovalicker. For all components of this course in which clicker records are used to compute a portion of the grade:

- The use of somebody else s clicker in class constitutes a scholastic offence;
- The possession of a clicker belonging to another student will be a an attempt to commit a scholastic offense

4. Academic Considerations and Absences from Lectures and Assessments

Religious Accommodation

When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request (in writing) any necessary academic considerations at least two weeks prior to the holidaycademic counsellors in their Home Departmental information is provided in the Western Multicultural alendar.

Academic Accommodation

Please contact the courinestructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible todyouts S with ongoing accommodation needs within this course are also encouraged to contact Accessible Educatio provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found

Academic Consideration

The University recognizeshat a student s ability to meet their academic responsibilities may, on occasion, be impaired by extenuating circumstances that are medical or compassionate ec

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A student completing tests or examinations with flexible submission times (e.g., where one or more evaluation is a takeme assessment) cannot request alternative arrangements unless a conflict cannot be avoided by rescheduling writing the exam to a different time within the window specified by the instructor. This applies to direct conflicts as well as heavy load conflicts (e.g., three exams within a law period). The student should discuss any concerns about a potential conflict and/or request academic considerations with their academic counselling unit prior to the deadline to drop a course without academic penalty

In the case of online tests and examinations, use of a Conflict Room, wherein student can write two proctored exams concurrently, will be interpreted as arrangements for continuous proctoring.

5. Contingency Plan for an In-Person Class Pivoting to 100% Online Learning

In the event of a situation that requires this course to pivot to online content delivery, all amuatel15be2

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You have the right to appeal any grade within this course. The grounds for a grade appeal may be one or more of: medical or compassionate circumstamates uating circumstances beyond the student s control, bias, inaccuracy, or unfairness. All grounds advanced in a request for relief must be supported by a clear and detailed explanation of the reasons for the request together with all supporting documentation.

Appeals generally proceed in this order:

- 1. Course instructor (informal consultation)
- 2. Department Chair (submission of written request)
- 3. The Dean of the Faculty (submission of written request)

In the case of perceived procedural unfairness, steps 2 and 3 are carried out within the Department and Faculty offering the course. In the case of extenuating medical or compassionate circumstances that impact on a grade, steps 2 and 3 are carriednoat wi student s Home Department and Faculty.

A request for relief against a mark or grade must be initiated with the instructor as soon as possible after the mark is issued. In the event that the instructor is not available to the student, or fails to ac or if the matter is not resolved satisfactorily with the instructor, a written request for relief must be submitted to the Chair of the Department within three weeks of the date that the mark was issued. In the case of a final grade in a course, then we we we were the course of the department by Januta (for firsterm half courses) or June 30th (for second term half courses or full arcourses)

8. Support Services

Health and Wellness:

Information regarding healthd wellness related services available to students may be found at http://www.health.uwo.ca/.

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.fo/) a complete list of options about how to obtain help.

There are various support services around campus and these include,ebootalimited to: Student Development Centre -- http://www.sdc.uwo.ca/ssd/
Ombudsperson Office -- http://www.uwo.ca/ombuds/

9. Student Code of Conduct

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed and set out the disciplinary procedures that the University will follow. For more information, visit https://www.uwo.ca/univsec/pdf/boodtelpdf

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