

**School of Kinesiology**  
Faculty of Health Sciences  
Western University

**KIN 4430F - Exercise Physiology: Muscle Function and Metabolism**  
**Fall 2018**

**Instructors:**

Dr. Charles Rice  
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**Course TAs:**

TBA

**Office Hours:**

Office hours are arranged by appointment (email or phone) with the appropriate instructor, or the TA.

**Course Description:**

The focus is on the structure and function of skeletal muscle with an emphasis on muscle plasticity and the adaptive response to exercise.

**Pre-requisite:** Kin 2230, or equivalent

*Please note: You are responsible for ens*

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**Text:**

There is no single text required for the course but selected textbooks are listed for background or review material and with sections directly related to the course lecture topics.

For review and fundamental understanding of the main concepts discussed in the course refer to one, or more of the following textbooks available in the library or on-line:

- a) McIntosh, B.R., Gardiner, P.F. and McComas, A.J. *Skeletal Muscle: Form and Function*, 2<sup>nd</sup> ed., Human Kinetics Publishers, Champaign, Ill., c2006. Chapt's: 1-4, 9, 10, 12, 13, 15, 16-21, & 22.
- b) Tipton, C.M. (editor), and section editors, Sawka, M.N., Tate, C.A., and Terjung, R.L. *ACSM's Advanced Exercise Physiology*. Lippincott Williams & Wilkins, c2006., Philadelphia, PA. Chapters: 3, 5, 6, 7 and 8, OR 2<sup>nd</sup> edition P.A. Far



**PLAGIARISM WILL NOT BE TOLERATED** and could result in the assignment being given a fa

include hospital stays, serious illness, family emergencies (like serious accidents or illness, death) or similar circumstances.

## **2 Academic Accommodation:**

[https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_illness.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf)

The University recognizes that a student's ability to meet his/her academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short term), or it may be chronic (long term), or chronic with acute episodes. The University further recognizes that medical situations are deeply personal and respects the need for privacy and confidentiality in these matters. However, in order to ensure fairness and consistency for all students, academic accommodation for work representing 10% or more of the student's overall grade in the course shall be granted only in those cases where there is documentation indicating that the student was seriously affected by illness and could not reasonably be expected to meet his/her academic responsibilities.

A UWO Student Medical Certificate (SMC) is required where a student is seeking academic accommodation. This documentation should be obtained at the time of the initial consultation with the physician or walk-in clinic. An SMC can be downloaded under the Medical Documentation heading of the following website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf)

Documentation is required for non-med

The university-wide descriptor of the meaning of letter grades, as approved by Senate:

**8. Use of Electronic Devices:**

**During Quizzes:** Unless you have medical accommodations that require you to do so, or



## **SUPPORT SERVICES**

There are various support services around campus and these include, but are not limited to:

1. *Student Development Centre* -- <http://www.sdc.uwo.ca/ssd/>
2. *Student Health & Wellness* -- <http://www.health.uwo.ca/>