

**KIN 4430F – Neuromuscular Physiology**  
**Fall 2024**

**Instructor:** Dr. Anita Christie

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### **Course Description**

The focus is on the structure and function of the neuromuscular system with an emphasis on adaptive responses to exercise, aging, and disease.

### **Learning Outcomes**

Upon completion of this course, students will be able to:

1. Identify and understand concepts of basic skeletal muscle and spinal motor neuron architecture and physiology as they relate to voluntary movement in health, exercise training and some clinical situations.
2. Appreciate and critically evaluate the limitations in understanding of the function of various key processes, and their adaptability in response to exercise and disuse.
3. Explore and synthesize this information in a research context.
4. Develop skills in the written expression of ideas through analysis of research papers and exams.
5. Further develop abilities of critical reflection on ideas in scientific understanding relating to the above topics, and integration with other courses of the curriculum.

### **Course Format:**

This course will be provided **co exe (ino)11.ino0os0.096 Tc 0.ed 1 rm O2 0 tegrBDC /TT1 1 Tf-0.003&ntiaeD-4.3**

**Course Evaluation:**

<b>Grade Source</b>	<b>Percentage of Course Grade</b>
Quizzes (best 4 of 5)	5%
Term Assignment Proposal	5%
Term Assignment	25%
Mid-term Exam	30%
Cumulative Final Exam	35%
<b>Total</b>	<b>100%</b>

**Quizzes (5%):** Quizzes will be completed through Owl, with a time limit. On weeks when they are assigned, quizzes will be available by Friday and will be due on Monday (see below for dates). The best 4 out of 5 qTw -41.71.88 83.0( dat Tw [ar))-6.9 (pr4ow)7.1 1.727 -g1-5 ( 5 qTw). n3559 refou.1 (or)4.1 ( f)-7.1 (i

## **COURSE OVERVIEW**

<b>TOPIC</b>	<b>INSTRUCTOR</b>
<b>Introduction</b>	Rice, Christie
<b>Skeletal muscle – structure &amp; function; and the motoneurone</b> <ul style="list-style-type: none"><li>• introduction/review of muscle, structure/function, rel5 (e/67o82h (e.3 (r)4.)</li></ul>	

## IMPORTANT DATES

Date	Event
Thursday, September 5	First day of class
Monday, September 1	

## Course/University Policies

### Support Services

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

1. Academic Support and Engagement - <http://academicsupport.uwo.ca>
2. Wellness and Well-being - <https://www.uwo.ca/health/>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>

The websites for Registrarial Services (<http://www.registrar.uwo.ca>), and the same for affiliated university colleges when appropriate, and any appropriate Student Support Services (including the services provided by the USC listed here: <http://westernusc.ca/services/>) and the Student Development Services, should be provided for easy access.

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

### Statement on Gender-Based and Sexual Violence

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced 86.2 Tm[)]4.9 ( and )11.2 (t)-6.6 (he4o7t-o6)-6.43 (one t)-6J0 ho ar and ti



**Use of Statistical Pattern Recognition on Multiple Choice Exams**

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

**Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#)

**Correspondence Statement**

The centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner. Students are further expected to attend to announcements presentetm pectese(ur)5 77og4



