

School of Kinesiology  
Faculty of Health Sciences  
Western University

**KIN 3412B – Exercise for Specific Populations: Chronic Disease  
Winter 2019**

|                    |   |                      |                         |
|--------------------|---|----------------------|-------------------------|
| <b>Instructor:</b> | Dr Marc Mitchell<br>Assistant Professor | <b>Office:</b>       | 2360 C Somerville House |
| <b>Location:</b>   | TBD                                     | <b>Office Hours:</b> | Wednesday 2:00pm-3:00pm |
| <b>Lectures:</b>   | MoWeFr 10:30AM-11:20AM                  | <b>Phone:</b>        | 519-661-2111 x 87936    |
|                    |   | <b>Email:</b>        | marc.mitchell@uwo.ca    |

**TAs:** TBD

**NOTE:** All course information including grades, assignment outlines, deadlines, etc. are available via OWL. Check the website regularly for course announcements.

**Calendar Course Description:**

Students will learn the role of exercise in the management of chronic disease. Chronic diseases include: metabolic, cardiovascular and pulmonary diseases, cancer. The implications of performing safe/effective exercise prescription and evaluation will be considered. Exercise guidelines will be examined within the context of Professional Kinesiology and clinical practice.

**My Course Description:**

Professional Kinesiologists can play a vital role when it comes to the prevention, rehabilitation and management of many chronic diseases. In this course, students will learn to design safe and effective exercise programs for the primary and secondary prevention of common chronic conditions. Specifically, students will learn how to develop 'exercise prescriptions' for clients living with metabolic, cardiovascular and pulmonary diseases, as well as certain cancers. Students will be exposed to the many factors influencing exercise prescription in these high-risk sub-populations, including physiologic, psychological, clinical, behavioural, and social factors. The main course objective will be to arm students with a logical step-by-step approach to exercise prescription in clinical settings. The course will be lecture based with a focus on real world scenarios. Case-based tests, group discussion, and clinical case presentation opportunities will facilitate clinical skill development as well.

**Anti-requisite(s)/Pre-requisite(s)/Co-requisite(s) if applicable:**

You are responsible for ensuring that you have successfully completed all course pre-requisites, and that you have not taken an anti-requisite course.

Unless you have either the requisites for this course or written special permission from the course department to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

**Course Format:**

Lectures Monday, Wednesday, Friday 10:30am-11:20am  
Location TBD

**Recommended Text:** *ACSM's Guidelines for Exercise Testing and Prescription* (10<sup>th</sup> Ed.)

**Learning Objectives:**

Upon completion of this course students will be able to:

1. **Identify and delineate** theoretical terms and concepts with regards to clinical exercise testing and prescription. (Knowledge)
2. **Compare and contrast** theoretical and practical approaches for exercise prescription in clinical settings including special considerations for specific populations as well as unique social and behavioral contexts. (Analysis)
3. **Synthesize** research and practical knowledge about exercise assessment and intervention for various populations. (Comprehension)
4. Begin to **Develop** skills in professional and clinical decision making as they pertain to exercise prescriptions designed by Professional Kinesiologists. (Application)
5. **Further develop** abilities to *critically reflect* upon own learning and relate to the topics discussed in class. (Reflection)

**Required Course Material:**

Required readings are from *ACSM's Guidelines for Exercise Testing and Prescription* (10<sup>th</sup> Ed.). Supplemental readings will be posted on OWL as well.

**Course Evaluation Summary:**

|   |     |
|---|-----|
| 1. Monday Small Group Discussions (3 x 1%, plus bonus 2% for attending all 3) | 5%  |
| 2. Exercise Prescription Test (3 x 15%)                                       | 45% |
| 3. Oral Case Presentation (3 min)   | 15% |
| 4. Pop Quizzes (5 pop quizzes x 1%)   | 5%  |
| 5. Final Exam (Multiple Choice and Short Answer)                              | 30% |

**Course Evaluation Details:**

*Coming soon...*

## Course/University Policies

1. **Lateness/Absences:** Assignments are due at the beginning of class on the assigned due date and will not be accepted late, except under medical or other compassionate circumstances. Electronic submission of assignments will not be accepted (unless otherwise specified) under any circumstances. Submitting a late assignment without appropriate documentation will result in a zero (0) grade. Appropriate documentation for assignments worth less than 10% should be submitted to the instructor. A missed mid-term examination without appropriate documentation will result in a zero (0) grade. The course policy is not to allow make-ups for scheduled midterms, presentations or final exams, nor to assign a grade of Incomplete without acceptable and verifiable medical (or equivalent compassionate) reasons. Acceptable reasons might include hospital stays, serious illness, family emergencies (like serious accidents or illness, death) or similar circumstances.

2. **Written documentation (Illness, Medical/Non-Medical):**

[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-medical absences where the course work missed is more than 10% of the overall grade. Students may contact their Faculty Academic Counselling Office for what documentation is needed.

Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, examinations, etc. stating specific reasons and dates. Students must follow up with their professors and their Academic Counselling office in a timely manner. Documentation for medical requests for accommodation must be submitted within two (2) business days after the end date on the documentation, to the appropriate Academic Counselling Office of the student's Faculty of registration. For KIN students, you may go to the School of Kinesiology in 3M Centre room 2225 **NOT** to the instructor. It will be the Academic Counselling office that will determine if accommodation is warranted.\*

An "Accommodation Consideration Request Form" found online or in the Kinesiology Undergraduate Office" for ALL accommodation requests must be submitted into the appropriate Academic Counselling office of the student's Faculty/School of registration. These documents will be retained in the student's file, and will be held in confidence in accordance with the University's Official Student Record Information Privacy Policy.

[https://www.uwo.ca/fhs/kin/undergrad/files/accommodation\\_request.pdf](https://www.uwo.ca/fhs/kin/undergrad/files/accommodation_request.pdf)

3. **Grades:** Where possible assignment objectives and rubrics will be posted on OWL. Should you have a concern regarding the grade you received for an assignment or feel that it is unfair in any way, you must wait 24 hours from the receipt of the assignment to approach the instructor or TA. In doing so, please make an appointment and prepare in writing, with evidence, why you feel your grade is inappropriate. Please be aware that in requesting a grade reassessment, your grade could go up/down/or stay the same. Note that calculations errors (which do occur!) should be brought to my attention immediately.

**15% of course grades will be posted by the last day to drop a course.**

|    |          |  |
|----|----------|--|
| A+ | 90-100   | <i>One could scarcely expect better from a student at this</i> |
| A  | 80-89    | <i>Superior work that is clearly above average</i>             |
| B  | 70-79    | <i>Good work, meeting all requirements and eminently</i>       |
| C  | 60-69    | <i>Competent work, meeting requirements</i>                    |
| D  | 50-59    | <i>Fair work, minimally acceptable.</i>                        |
| F  | below 50 | <i>Fail</i>  |

4. **Scholastic offences:** They are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

[http://www.uwo.ca/univsec/handbook/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf).

A) Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar). All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com (<http://www.turnitin.com>)

B) 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.

5. **Formatting** (*as recommended by the course instructor*): example- APA style is the approved style of writing for all assignments produced for this course. Please refer to Western University Library webpage for information on citation style and format or consult the APA publication manual: Publication manual of the American Psychological Association (6th ed.). (2009). Washington, DC: American Psychological Association.

6. According to the **Examination Conflict policy**, "A student who is scheduled to write more than two examinations in any 24-hour period may request alternative arrangements through the office of their Academic Counsellor." *\*This policy does NOT apply to mid-term examinations.* There will be no make-up for the mid-term exam. Students who miss this exam with a valid reason will have the final re-weighted accordingly.

7. **Classroom Behaviour:** Class will begin promptly at the time specified at the top of page one of this syllabus. In the event that you must arrive late, please enter the classroom with a minimal disturbance to the class. I reserve the right to lock the classroom door and deny entrance if lateness becomes a common occurrence. Excessive talking during class time is disruptive, disrespectful, and will not be tolerated. Students engaging in such behaviour may be

asked to leave the room. Cellular phones, pagers, and text-messaging devices are disruptive when they ring in class. If you must bring these with you, please place them on silent mode or turn them off during class. Failure to do so may result in your being asked to leave.

8. Laptops for the **purpose of typing lecture notes** are permitted in class, but please be respectful to your fellow students and turn the sound off. If I receive complaints from other students regarding noise or other disruptive behaviour (e.g., watching videos on YouTube.com, updating your Facebook status, playing Solitaire), your classroom laptop privileges will be revoked.

9. Audio and/or videotaping of lectures is not permitted unless approval has been sought from the instructor in advance.

10. **Health and Wellness:** As part of a successful undergraduate experience at Western, we encourage you to make your health and wellness a priority. Western provides several on-campus health-related services to help you achieve optimum health and engage in healthy living while pursuing your degree. For example, to support physical activity, all students receive membership in Western's Campus Recreation Centre as part of their registration fees. Numerous cultural events are offered throughout the year. Please check out the Faculty of Music web page (<http://www.music.uwo.ca/>), or the McIntosh Gallery <http://www.mcintoshgallery.ca/>

Further information regarding health and 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.ca/>) for a complete list of options about how to obtain help.

## **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

<http://www.uwo.ca/univsec/board/code.pdf>

## **ENGLISH PROFICIENCY FOR THE ASSIGNMENT OF GRADES**

Visit the website <http://www.uwo.ca/univsec/handbook/exam/english.pdf>

## **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/>
3. *Registrar's Office* -- <http://www.registrar.uwo.ca/>
4. *Ombudsperson Office* -- <http://www.uwo.ca/ombuds/>

## Tentative Weekly Schedule

| <b>Week of</b> | <b>Topic</b>                | <b>Notable Events</b>   |
|----------------|-----------------------------|---|
| January 7      | Introduction                |   |
| January 14     | The 'step-by-step' approach |   |
| January 21     | Type 2 diabetes             |   |
| January 28     | Type 2 diabetes             | <i>Monday Small Group Discussion</i>  |
| February 4     | Type 2 diabetes             | Exercise Prescription #1, February 6  |
| February 11    | Heart disease               |   |
| February 18    | <b>NO CLASS</b>             | <b>READING WEEK</b>   |
| February 25    | Heart disease               | <i>Monday Small Group Discussion</i>  |
| March 4        | Heart disease               | Exercise Prescription #2, March 6   |
| March 11       | COPD                        |   |
| March 18       | COPD                        | <i>Monday Small Group Discussion</i>  |
| March 25       | COPD/Case Presentations     | Exercise Prescription #3, March 25  |
| April 1        | Case Presentations          | <i>*3-min case presentation sign-up sheet to be circulated Week 2 (week of January 14).</i> |
| April 8        | Review (last class April 8) |   |