

**The University of Western Ontario  
Faculty of Health Sciences  
School of Health Studies**

**Rehabilitation Sciences 3060A  
Health Conditions and Disease in Rehabilitation  
Course Outline  
Fall, 2022**

**LECTURE TIMES AND LOCATION**

**Monday evening:** 6:30 – 9:30 pm FNB 1220

**Course Manager/Instructor:** Troy Seely, PT, BScPT, MScPT, DPT, FCAMPT

**Office Hours:** Email address: [tseely2@uwo.ca](mailto:tseely2@uwo.ca)  
email to arrange an appointment

**CONTACT INFORMATION**

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Office hours: email to arrange an appointment

**Use your Western e-mail to communicate.** Please use your student Western e-mail addresses. Non-Western e-mail addresses received from students will not be opened.

**COURSE FORMAT**

The course material will be provided via in person lectures as well as in person review exercises.

The OWL platform will be a resource for lectures, exercise activities, and working on the group assignment. It is also a vital space of communication between instructor and students related to exam information as well as the ebb and flow of the term. For this reason, a strong internet connection is a requirement for the course.

## **COURSE DESCRIPTION**

In this course, we will examine diseases and health conditions frequently encountered in rehabilitation practices. This will be done through an understanding of the anatomical area of the body involved, the pathological process of the condition, signs and symptoms of the condition and general assessment principles.

The experiences of people with select physical disabilities will also be explored through the use of in-class clinical cases.

The course is divided into three content sections:

Section 1 = Neurological disorders.

Section 2 = Chronic pulmonary conditions.

Section 3 = Musculoskeletal disorders.

See Page 9 for a class outline.

## **PREREQUISITES**

The prerequisites for this RS 3060 course are: Health Sciences 2300A/B or Kinesiology 2222A/B or the former Anatomy and Cell Biology 2221. Pre-or Corequisite(s): Registration in a Rehabilitation Science module or enrolment in the third or fourth year of the School of Health Studies or School of Kinesiology.

It is the student's responsibility for ensuring that course prerequisites have been successfully completed or special permission from the Dean has been obtained.

Unless you have either the prerequisites for this course or written special permission from your Dean (see your academic counsellor) 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 GOALS**

One goal of this course is to enhance your understanding of the most prevalent health conditions and diseases encountered in rehabilitation practices. Building on a foundation of anatomic knowledge of the region, you will attain a better appreciation of the influence of the pathological process of various conditions and their role in affecting the body's function.

Another goal of this course is the appreciation of both the short and long term impact of these conditions on the quality of life of the people who experience them. This will look both at the influence on activities of daily living and participation in society as a whole.

## **COURSE LEARNING OBJECTIVES**

At the end of this course students will attain further knowledge of presented clinical conditions. This knowledge related to each condition will be multifactorial, with focus upon:

- (a) Epidemiology = Students will gain an understanding of the distribution (frequency and pattern) and risk factors for each presented condition.
- (b) Etiology = Students will review the cause or set of causes ( if known ) for each presented condition and how this relates to both epidemiology and pathological presentation.
- (c) Pathology = Students will gain an understanding of the pathological presentation of each presented condition and how that pathological presentation can change over time.
- (d) Clinical Presentation = Students will review clinically relevant signs and symptoms, as well as clinical investigative testing, that would be assessed and reviewed to form a diagnosis for the presence of the clinical condition.
- (e) How the health condition or disease impacts the quality of life of patients = Students will consider the influence of the condition on a patient's quality of life. This will be augmented with comparison to previously reviewed conditions and the implementation of case-based studies in class.

## **OWL**

All students need to use OWL to access resources used in this course such as Power Point handouts for lectures and additional handouts. Students are responsible for checking the OWL site for this course to attain handouts, lectures, updates or changes to the schedule. Information or materials not posted on OWL 24 hours in advance of class time will be provided by the course instructor in class. Note that the course instructor will not answer e-mail in OWL. Please contact the instructor by e-mail for difficulties accessing OWL.

**OWL Website: RehabSci 3060A FW22**

## **COURSE EVALUATION**

Mid-term exam (Week of October 24):	35%
Final exam (date TBD):	35%
Group assignment (December 5):	30%

**NOTE:** Your final grade will come **from the registrar**, not the course instructor.

## **Examinations:**

In this course there will be one in-class midterm test (October 24) and a final exam during the final examination period in December. Questions will consist of computer-marked multiple-choice responses. These exams are designed to assess your knowledge of all materials and concepts identified and discussed in class including lectures, handouts and in-class exercises.

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.

## **Midterm Test (35%):**

The midterm test will be held October 24 during the class session (see the schedule on page 10). The midterm exam will consist of computer-marked multiple-choice questions. Case scenarios or vignettes may be included. The midterm exam will cover all material prior to the midterm test.

## **Final Exam (35%):**

The final exam will be held during the final examination period in December. The final exam will consist of computer-marked multiple-choice questions. Case scenarios or vignettes may be included. The exam will cover all material after the mid-term test.

## **Group Assignment (30%):**

The assignment requires you to work with classmates in groups. You will be randomly assigned into groups in September. You will then be provided with detailed information about the assignment later that month.

The assignment requires you to:

- a) Select a health condition NOT covered in the course
- b) Research the health condition
- c) **Create a Patient Glossary** as an educational tool for a person (or his/her family member) with the selected health condition
- d) **Submit your assignment on the last class: December 5, 2022.**

### **Late Penalty for Assignment:**

A late assignment will be penalized 5% for each day, or part of day, that it is late. For example, an assignment graded as 41/50 will have 2.5 points deducted from the mark if handed in one day late and will be recorded as 38.5/50. There will be no exceptions except for valid, extenuating circumstances (death in the family, incapacitating illness,) which MUST be verified and documented with a School of Health Studies Academic Counsellor.

### **Missing the midterm or final exam:**

If a student is to miss the midterm or the final exam for valid, extenuating circumstances (death in the family, incapacitating illness,) - which MUST be verified and documented with a School of Health Studies Academic Counsellor – then a makeup exam will be provided. This date will be discussed with the course manager.

### **Letter Grades:**

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

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

It is expected that the average grades for this course will fall between 72-76% (core). In the event that the course average falls outside this range, a constant may be added (or subtracted) from each student's grade, by the instructor, to bring the class average in line with school policy.

## **COURSE POLICIES AND PROCEDURES**

### **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/pdf/board/code.pdf>.

### **Contingency plan for in-person pivoting to online learning**

Contingency plan for an in-person class pivoting to 100% online learning:

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the

timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will not change. Any remaining assessments will also be conducted online as determined by the course instructor.

**In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction**, tests and examinations in this course will be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

### **English Proficiency for the Assignment of Grades:**

Visit the website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/exam/english.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/exam/english.pdf)

### **Use of Recording Devices and Course Content:**

Course instructors own and retain the intellectual property rights of their teaching materials. These rights extend to materials used in online settings and digital learning management systems like Owl. Students do not have our permission to make audio or video recordings of lectures, take pictures of lecture material, or distribute any course content for nefarious purposes (E.g. for sale or to cheat on exams). It is the decision of the instructor as to how and when teaching materials can be shared or used. **Unless explicitly noted otherwise, you may not make audio or video recordings of pre-recorded lectures or other course materials. Nor may you edit, re-use, distribute, or re-broadcast any of the material posted to the course website.**

### **Cheating:**

Cheating involves a number of things, including the use of unauthorized material in an exam and divulging exam material to another student.

### **Scholastic Offences:**

Scholastic offences are taken seriously, and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website:

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

Additionally:

1. All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University to detect 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 The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

2. 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.

### **Academic Consideration:**

The University recognizes that a student's ability to meet their academic responsibilities may, on occasion, be impaired by extenuating circumstances, including short-term illness or injury. Reasonable academic consideration is a cooperative process between the University, the student, and academic staff. All participants in the process must act in good faith, and fulfil their respective obligations, if it is to succeed.

Students who experience an extenuating circumstance (illness, injury, or other extenuating circumstance) sufficiently significant as to temporarily render them unable to meet academic requirements, may submit a request for academic consideration through the following routes:

- (i) Submitting a Self-Reported Absence form, provided that the conditions for submission are met;
- (ii) For medical absences, submitting a Student Medical Certificate (SMC) signed by a licensed medical or mental health practitioner, in order to be eligible for Academic Consideration; or
- (iii) For non-medical absences, submitting appropriate documentation (e.g., obituary, police report, accident report, court order, etc.) to Academic Counselling in their Faculty of registration, in order to be eligible for academic consideration.

Students seeking academic consideration:

- Are advised to consider carefully the implications of postponing tests or midterm exams or delaying handing in work;
- Are encouraged to make appropriate decisions, based on their specific circumstances, recognizing that minor ailments (e.g., upset stomach) or upsets (e.g., argument with a friend) are not normally an appropriate basis for a self-reported absence;
- **Must communicate with their instructors no later than 24 hours** after the end of the period covered by either the self-reported absence immediately upon their return following a documented absence;

- a. **Are advised that all necessary documentation, forms, etc. are to be submitted to academic counselling within two business days after the date specified for resuming responsibilities.**

### **Professional Behaviour:**

Students are expected to attend all classes, arrive on time for class, participate in class discussion, make a genuine contribution to any group activities and respect the opinions of others in the learning process.

Students and instructors are expected to maintain a professional relationship characterized by courtesy and mutual respect and to refrain from actions disruptive to such a relationship. Moreover, it is the responsibility of the instructor to maintain an appropriate academic atmosphere in the classroom, and the responsibility of the student to co-operate in that endeavour.

### **Use of Electronic Devices:**

During Exams: unless you have medical accommodations that require you to do so, or explicit permission from the instructor of the course, you may not use any of the following electronic devices during ANY of the tests, quizzes, midterms, examinations, or other in-class evaluations: cellphones, smart phones, smart watches, smart glasses, audio players or recorders of any sort, video cameras, video games, DVD players, televisions, laptop/notebook/netbook computers, flashlights or laser pointers.

During Lectures and Tutorials: Although you are welcome to use a computer during lecture and tutorial periods, you are expected to use the computer for scholastic purposes only, and refrain from engaging in any activities that may distract other students from learning. From time to time, your professor may ask the class to turn off all computers, to facilitate learning or discussion of the material presented in a particular class.

**Cell phones auditory sounds (ring tones, message chimes) are to be turned off during scheduled class time.**

## **SUPPORT SERVICES FOR STUDENTS**

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

1. Student Development Centre -- <http://www.sdc.uwo.ca/>
2. Student Health -- <https://www.uwo.ca/health/shs/>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombud's Office -- <http://www.uwo.ca/ombuds/>

## **HEALTH AND WELLNESS FOR STUDENTS**

The undergraduate experience is rewarding and challenging socially, emotionally, and intellectually. Finding ways to balance scholarly life with our personal lives can be tough, but it's important to learn how to manage stress. Western provides several health and



wellness-related services to students, which may be found at <http://www.health.uwo.ca/>. You can also check out the Campus Recreation Centre or the McIntosh Gallery (<http://www.mcintoshgallery.ca/>), for alternative spaces to reconnect with your bodies and restore your spirit. You may also want to access local resources that are closer to where you are living during the school year. Recalibrating ourselves emotionally begins with slowing down, reminding ourselves that we are ok, and taking a few deep, slow breaths. This remarkably effective strategy brings the body from stress mode into a more relaxed state.

If you are in emotional or mental distress should refer to Mental Health@Western [Mental Health Support - Health & Wellness - Western University \(uwo.ca\)](#) for a complete list of options about how to obtain help or Thames Valley Family Services (<https://www.familyservicethamesvalley.com/>), a trusted provider within the community. To help you learn more about mental health, Western has developed an interactive mental health learning module, found here: [Health & Wellness - Western University \(uwo.ca\)](#). It's also advisable to have a wellness safety plan if you don't want to reach out to formal services. Having the numbers of a few trusted individuals is another strategy.

## **SCHEDULE OF KEY DATES AND TOPICS**

<b>Week</b>	<b>Week of</b>	<b>Topic</b>
1-4	Sept 12 Sept 19 Sept 26 Oct 3	<b><u>Neurological Disorders</u></b> Orientation & Stroke I* Stroke II and Spinal Cord Injury I* Spinal Cord Injury II and Traumatic Brain Injury* Parkinson's Disease*
5	Oct 10	Thanksgiving – NO CLASS
6	Oct 17	Cerebral Palsy†
7	Oct 24	<b>MIDTERM TEST</b>
8	Oct 31	<b>Project Week – NO CLASS (Fall Reading Break)</b>
9	Nov 7	Multiple Sclerosis*
10-11	Nov 14 Nov 21	<b><u>Lung Conditions</u></b> Chronic Obstructive Pulmonary Disease* Cystic Fibrosis*/ Asthma*/ Restrictive Lung Disease*
12-13	Nov 28 Dec 5	<b><u>Musculoskeletal Disorders</u></b> Arthritis* Osteoporosis and Fractures† and <b>Submit Group Assignment</b>
	<b>TBD</b>	<b>FINAL EXAM in Exam Period</b>

**The lecture timetable is subject to change, as needed, throughout the course.**

**Textbooks used to create the lectures:**

\*O'Sullivan SB, Schmitz TJ, Fulk GD (2019). *Physical Rehabilitation* (7<sup>th</sup> ed). Philadelphia, PA: FA Davis Company.

†Goodman CC, Fuller KS (2015). *Pathology. Implications for the Physical Therapist* (4<sup>th</sup> ed). St. Louis, MI: Saunders Elsevier.

## Common Concerns Guidelines

The table below summarizes a list of common student concerns and how they are to be resolved. If you have a concern that is not listed here, then please email your instructor.

Concern	How to address concern
Course administrative matters	Read through the course outline or email instructor if question cannot be answered from information in the course outline
Course content questions	Refer to the OWL Resources (notes, calendar, etc). Email the instructor.
Grade disputes and requests for appeals	A student requesting an appeal to a specific course with respect to a grade for an assignment or examination must first contact their instructor to discuss such matters.  Visit the following website for guide on submitting an appeal: <a href="https://uwo.ca/fhs/policies/appeals.html">https://uwo.ca/fhs/policies/appeals.html</a>