

Department of Physiology and Pharmacology
Respiratory Health & Disease, Physiology 4200B

Course outline for Winter 2022



Although this academic year might be different, Western University is committed to a **thriving campus**. We encourage you to check out the [Digital Student Experience](#) website to manage your academics and well-being. Additionally, the following link provides available resources to support students on and off campus: <https://www.uwo.ca/health/>.

1. Technical Requirements:



Laptop or computer

2. Important Dates:



Classes Resume	Reading Week	Classes End	Study day	Exam Period
January 10	February 19–27	April 8	April 9	April 10–30

* March 14, 2022: Last day to drop a second-term half course or a second-term full course without penalty

3. Contact Information

Course Coordinator	Contact Information
Sean Gill	Email: sgill8@uwo.ca



Instructor(s) or Teaching Assistant(s)	Contact Information
Ruud Veldhuizen	Email: rveldhui@uwo.ca

4. Course Description and Design

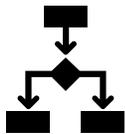
Delivery Mode: Blended

This course examines the normal pulmonary environment, including lung development and adaptations to high altitude, and a variety of pathophysiological conditions and processes. For each condition or disease, physiological abnormalities and current therapies will be discussed, as will pathophysiological mechanisms with some emphasis on chronic and acute inflammation.

Prerequisite: Physiology 3120

Timetabled Sessions

Component	Date(s)	Time
Lecture	Tuesdays	9:30-11:30



- Attendance at sessions is required
- Students who are unable to attend in person due to failure of the return to campus questionnaire can join live on zoom
- Missed work should be completed within 24 hours

All course material will be posted to OWL: <http://owl.uwo.ca>. Any changes will be indicated on the OWL site and discussed with the class.

If students need assistance, they can seek support on the [OWL Help page](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

[Google Chrome](#) or [Mozilla Firefox](#) are the preferred browsers to optimally use OWL; update your browsers frequently. Students interested in evaluating their internet speed, please click [here](#).

Course delivery with respect to the COVID-19 pandemic

Although the intent is for this course to be delivered in-person, the changing COVID-19 landscape may necessitate some or all of the course to be delivered online synchronously (i.e., at the times indicated in the timetable). The grading scheme will not change. Any assessments affected will be conducted online as determined by the course instructor (i.e. oral final exam). Online sessions will be recorded and will require you to have a reliable internet connection. By taking this course, you acknowledge that the sessions will be recorded and consent to this.

5. Learning Outcomes

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



- Demonstrate knowledge comprehension of pulmonary physiology in health and disease
- Understand the basic methodological concepts to study lung physiology in health and disease
- Outline approaches to answer basic or clinical research questions related to lung physiology in health and disease
- Discuss research papers related to pulmonary physiology in health and disease

6. Course Content and Schedule



Week	Dates	Topic	Instructor
1	Jan 10–14	Course Introduction	Sean Gill and Ruud Veldhuizen
2	Jan 17–21	Lung Development	Sean Gill
3	Jan 24–28	Innate Host Defense	Sean Gill
4	Jan 31–Feb 4	The Aging Lung	Sean Gill
5	Feb 7–11	Mechanical Ventilation	Ruud Veldhuizen
6	Feb 14–18	ARDS + Inflammation	Sean Gill
7	Feb 21–25	Reading Week	
8	Feb 28–Mar 4	Asthma	Ruud Veldhuizen
9	Mar 7–11	COPD	Ruud Veldhuizen
10	Mar 14–18	Lung Transplantation	Ruud Veldhuizen
11	Mar 21–25	Lung Fibrosis	Sean Gill
12	Mar 28–Apr 1	Cystic Fibrosis	Ruud Veldhuizen
13	Apr 4–8	Summary Overview	Sean Gill and Ruud Veldhuizen

7. Participation and Engagement



- Students are expected to participate and engage with content as much as possible
- Attendance in person for lectures is preferred for completion of group work
- Students can also participate by interacting in the forums with their peers and instructors

8. Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

Assessment	Format	Weighting	Due Date
Midterm	Group Take Home	30%	Approx. March 4, 2022
Participation	During Lecture Hours	15%	Throughout
Participation	Outside Lecture Hours (in Forums)	15%	Throughout
Final Exam	Oral or Written depending on COVID-19 pandemic	30% (with paper critique) or 40% (without paper critique)	TBD (April 10-30)
Optional paper critique	Written	10%	April 10

- Participation via weekly class time activities during lecture hours is required. When in person lectures are possible, if you are unable to join in person and join via Zoom, you will be given an alternate activity to complete for participation marks. You may complete 2 alternate activities

maximum, if unable to attend in person. These alternate activities must be done during class time when joining via zoom

- All assignments are due at 11:55 pm EST unless otherwise specified
- Written assignments will be submitted to Turnitin (statement in policies below)
- Students will have 2 submissions to Turnitin
- A student may not receive the same grade as their group members if it is determined that the distribution of work was not equal
- After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days
Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading. The table below outlines the University-wide grade descriptors.

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which 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



Information about late or missed evaluations:

- Late assessments without self-reported absences or accommodation will be subject to a late penalty of 10%/day
- Late assessments with self-reported absences or accommodation should be submitted within 24 hours of the end of the self-report or accommodation (e.g., due Fri 11:55 pm; self-report covers Fri/Sat; new deadline is Sun by 11:55 pm OR 24 hours after the end of the accommodation period)
- An assessment cannot be submitted after it has been returned to the class; an alternate assessment will be assigned

9. Communication:



- Students should email their instructor(s) using email or through the OWL discussion board
- Emails will be monitored daily; students will receive a response in 24 – 48 hours
- This course will use OWL forums for discussions

10. Office Hours:



- There are no official office hours for this course. Students are encouraged to contact the instructor(s) by email and arrange an appointment.

11. Resources



- All resources will be posted in OWL

12. Professionalism & Privacy:



Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:

- All course materials created by the instructor(s) are copyrighted and cannot be sold/shared
- Recordings are not permitted (audio or video) without explicit permission
- Permitted recordings are not to be distributed
- Students will be expected to take an academic integrity pledge before some assessments

13. How to Be Successful in this Class:



Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.

1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule time at the start of each week to get organized and manage your time. Start your assignments (i.e. midterm) early!
2. Make it a regular habit to log onto OWL to ensure you have seen everything posted to help you succeed in this class.
3. Connect with others. Try forming a study group (online or in-person) and meeting on a weekly basis for study and peer support.
4. Do not be afraid to ask questions. If you are struggling with a topic, contact your instructor(s).
5. Actively participate in class during lectures and breakout sessions.
6. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

14. Western Academic Policies and Statements

Absence from Course Commitments

[Policy on Academic Consideration for Student Absences](#)

If you are unable to meet a course requirement due to illness or other serious circumstances, you must seek approval for the absence as soon as possible. Approval can be granted either through a **self-reported absence** or via the **Academic Counselling** unit. Students have two self-reports to use throughout the academic year; absence from course commitments including tests, quizzes, presentations, labs, and assignments that are worth 30% or less can be self-reported. Self-reported absences cover a student for 48 hours (yesterday + today or today + tomorrow). Your instructor will receive notification of your consideration; however, you should contact your instructor immediately regarding your absence. Students are expected to submit missed work within 24 hours of the end of the 48-hour period. Please review details of the [university's policy on academic consideration for student absences](#).

If you have used both their self-reported absences or will miss more than 48 hours of course requirements, a Student Medical Certificate (SMC) should be signed by a licensed medical or mental health practitioner and you should contact academic counselling. Academic Counselling will be operating virtually this year and can be contacted at scibmsac@uwo.ca.

Accommodation for Religious Holidays

The policy on Accommodation for Religious Holidays can be viewed [here](#).

Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](#).

Academic Offenses

“Scholastic offences are taken seriously, and students are directed [here](#) to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence.

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 his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).

Discovery Credit Statement

Students are permitted to designate up to 1.0 Discovery Credit course (or equivalent) for pass/fail grading that can be counted toward the overall course credits required for their degree program. The details of this policy and the deadlines can be found [here](#).

Turnitin and other similarity review software

All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. Students will be able to view their results before the final submission. 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](#).

15. BMSUE Academic Policies and Statements

Cell Phone and Electronic Device Policy (for in-person tests and exams)

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, i.e., cell phones, tablets, cameras, or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student’s bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual’s pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

Copyright and Audio/Video Recording Statement

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. You must always ask permission to record another individual and you should never share or distribute recordings.

Rounding of Marks Statement

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark “bumping” will be denied.

16. Support Services

The following links provide information about support services at Western University.

[Academic Counselling \(Science and Basic Medical Sciences\)](#)

[Appeal Procedures](#)

[Registrarial Services](#)

[Student Development Services](#)

[Student Health Services](#)