Physiology 4200
Respiratory Health & Disease
Fall Winter 2017

Lectures:
Tuesdays/8:30 – 10:30

Requisites:
Prerequisite(s): 3120
Corequisite(s)
Antirequisite(s)

Senate regulation regarding the student’s responsibility regarding requisites:
Unless you have either the requisites for this course or written special permission from your Dean 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.

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 Services for
Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding an
accommodation.

Instructor Information

Prof Sean Gill
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B.Sc. University of Western Ontario
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Prof Ruud Veldhuizen
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Course Syllabus
This course examines the normal pulmonary environment, including lung development and
adaptations to high altitude and exercise, 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.
<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Topic</th>
<th>Student Participation</th>
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</thead>
<tbody>
<tr>
<td>Veldhuizen/Gill</td>
<td>Overview of pulmonary structure, function and mechanisms of ventilation</td>
<td></td>
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<tr>
<td>Gill</td>
<td>Lung development</td>
<td>Paper presentations</td>
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<tr>
<td>Veldhuizen</td>
<td>Pulmonary function during exercise</td>
<td>Paper presentations:</td>
</tr>
<tr>
<td>West (youtube)</td>
<td>Pulmonary function at High altitude</td>
<td>Debates</td>
</tr>
<tr>
<td>Gill</td>
<td>Innate host defense mechanisms of the lung</td>
<td>Paper presentations</td>
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<tr>
<td>Veldhuizen</td>
<td>Asthma</td>
<td>Paper presentations</td>
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<tr>
<td>Veldhuizen</td>
<td>COPD</td>
<td>Debates</td>
</tr>
<tr>
<td>Gill</td>
<td>ARDS and lung inflammation</td>
<td>Paper discussion</td>
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<tr>
<td>Gill</td>
<td>Lung fibrosis</td>
<td>Dragon’s Den</td>
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<tr>
<td>Veldhuizen</td>
<td>Ventilation Induced Lung Injury</td>
<td>Paper presentations</td>
</tr>
<tr>
<td>Gill</td>
<td>Bacterial pneumonia</td>
<td>Paper presentations</td>
</tr>
<tr>
<td>Veldhuizen</td>
<td>Cystic Fibrosis</td>
<td>To be determined</td>
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</tbody>
</table>

**Evaluation:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Date</th>
<th>% of Final Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm test</td>
<td></td>
<td>30%</td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
<td>20%</td>
</tr>
<tr>
<td>Participation</td>
<td></td>
<td>10%</td>
</tr>
<tr>
<td>Final exam</td>
<td></td>
<td>40%</td>
</tr>
</tbody>
</table>

Note: Across the Basic Medical Sciences Undergraduate Education programs and within the department of Physiology and Pharmacology we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during a course. Final grades on this course will be rounded to the closest whole integer, e.g. a 73.5 becomes a 74. We WILL NOT bump marks to the next grade, e.g. a 69 will NOT be bumped up to a 70, an 89 WILL NOT be bumped up to a 90, etc. The mark attained is the mark you achieved and the mark assigned; there is no bumping to the next grade level.

**Additional Information/Statements**

**Statement on Use of Electronic Devices**

**Statement on Academic 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:


**Absence from course commitments**

A. Absence for medical illness:
Students must familiarize themselves with the Policy on Accommodation for Medical Illness: 
https://studentservices.uwo.ca/secure/index.cfm

**Statement from the Dean’s Office, Faculty of Science**

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to the Dean's office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office immediately. For further information please see:


A student requiring academic accommodation due to illness, should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services.
The form can be found at:
https://studentservices.uwo.ca/secure/medical_document.pdf

**C. 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.

A Special Examination must be written at the University or an Affiliated University College no later than 30 days after the end of the examination period involved. To accommodate unusual circumstances, a date later than this may be arranged at the time permission is first given by the Dean of the Faculty. The Dean will consult with the instructor and Department Chair and, if a later date is arranged, will communicate this to Registrarial Services. If a student fails to write a scheduled Special Examination, permission to write another Special Examination will be granted only with the permission of the Dean in exceptional circumstances and with appropriate supporting documents. In such a case, the date of this Special Examination normally will be the scheduled date for the final exam the next time the course is offered.

Support Services:
Registrarial Services: http://www.registrar.uwo.ca

Academic Counselling (Science and Basic Medical Sciences): http://www.uwo.ca/sci/counselling/

USC Student Support Services: http://westernusc.ca/services/

Student Development Services: http://www.sds.uwo.ca

Student Health Services: http://www.shs.uwo.ca/

Students that are in emotion/mental distress should refer to Mental Health@Western http://www.uwo.ca/uwocom/mentalhealth/ for a complete list of option about how to obtain help.