1. Course Information

Physiology 4620a

Endocrine and Reproductive Physiology 2019

Physiology 4602A/5602A reviews selected topics in the field of Endocrine and Reproductive physiology. This course does not attempt to be a comprehensive course in the sense that no attempt is made to cover all aspects of endocrine and reproductive physiology. The format of the course will be a series of lectures and seminars on the selected topics. The topics will be introduced by the Faculty member and then all topics will be considered in class by a general discussion with all class participants.

Lectures: NCB 117, Tuesdays, 12:30 PM – 2:30PM

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. More information is available at the bottom of this document.

Academic Consideration for Missed Work

Students who are seeking academic consideration for missed work during the semester may submit a self-reported absence form online provided that the absence is 48 hours or less and the other conditions specified in the Senate policy at https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.pdf are met.

Students whose absences are expected to last longer than 48 hours, or where the other conditions detailed in the policy are not met (e.g., work is worth more than 30% of the final grade, the student has already used 2 self-reported absences, the absence is during the final exam period), may receive academic consideration by submitting a Student Medical Certificate (for illness) or other appropriate documentation (for compassionate grounds). The Student Medical Certificate is available online at https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf.

All students pursuing academic consideration, regardless of type, must contact their instructors no less than 24 hours following the end of the period of absence to clarify how they will be expected to fulfill the academic responsibilities missed during their absence. Students are reminded that they should consider carefully the implications of postponing tests or midterm exams or delaying submission of work, and are encouraged to make appropriate decisions based on their specific circumstances.
Students who have conditions for which academic accommodation is appropriate, such as disabilities or ongoing or chronic health conditions, should work with Accessible Education Services to determine appropriate forms of accommodation.

2. Instructor Information:

<table>
<thead>
<tr>
<th>Instructors</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. A.J Watson</td>
<td><a href="mailto:awatson@uwo.ca">awatson@uwo.ca</a></td>
<td>RM 257 Medical Science Bldg</td>
<td></td>
</tr>
<tr>
<td>(Course Manager)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr. C Bell</td>
<td><a href="mailto:Christine.Bell@uwo.ca">Christine.Bell@uwo.ca</a></td>
<td></td>
<td></td>
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</tbody>
</table>

OWL: Students with OWL issues should see: https://owlhelp.uwo.ca

Support and accessibility Services:

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

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

Student Accessibility Services: http://sdc.uwo.ca/ssp/

Student Health Services: https://www.uwo.ca/health/shs/

3. Course Syllabus

General course objectives and expectations:

A student who has completed Physiology 4602a/5602a should be able to:
• discuss the current state of knowledge of those areas of endocrine and reproductive physiology covered by the course.

• evaluate critically the problem formulation, methodology, results and conclusions in selected research literature using external criteria (conclusions of others) and internal criteria (appropriateness of methodology, significance of results, consistency of conclusions).

• make hypothetical predictions relating to the implications of the results and conclusions in selected literature.

• Students are expected to come to each class having read the review article before hand and prepared to discuss the article.

Course Schedule and Topics:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 10</td>
<td>Why study reproductive biology? Neuroendocrinology: The HPO Axis</td>
<td>Watson</td>
</tr>
<tr>
<td>September 17</td>
<td>Sex Determination/Sex Differentiation</td>
<td>Bell</td>
</tr>
<tr>
<td>September 24</td>
<td>Puberty</td>
<td>Bell</td>
</tr>
<tr>
<td>October 1</td>
<td>Reproductive Cycles-First Assignment Due</td>
<td>Watson</td>
</tr>
<tr>
<td>October 8</td>
<td>Ovary</td>
<td>Watson</td>
</tr>
<tr>
<td>October 15</td>
<td>First Midterm (25%) – and Testes- Second Assignment handed out (20%)</td>
<td>Watson</td>
</tr>
<tr>
<td>October 22</td>
<td>Fertilization</td>
<td>Bell</td>
</tr>
<tr>
<td>October 30</td>
<td>Preimplantation Development</td>
<td>Bell</td>
</tr>
<tr>
<td>November 5</td>
<td>Fall reading week</td>
<td></td>
</tr>
<tr>
<td>November 13</td>
<td>Implantation</td>
<td>Watson</td>
</tr>
<tr>
<td>November 20</td>
<td>Maternal Recognition of Pregnancy</td>
<td>Watson</td>
</tr>
</tbody>
</table>
4. Course Materials

At least one current review article will be linked to each lecture. The content of this article is meant to supplement and enhance learning of each topic the course will consider. Students are expected to come to class having read the review article associated with each lecture. The material covered in each review article will be helpful for answering questions posed on midterm and final course exams and will be discussed in each class period. These review articles replace the use of a class textbook as all topics will focus largely on current findings associated with each topic.
5. Course Evaluation:

The course evaluation will be broken down as assessed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Due Date</th>
<th>% of Final Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Review for Journal</td>
<td>Oct 1, 2019 at 12:30 PM</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm Test</td>
<td>Oct 15, 2019 in class</td>
<td>25%</td>
</tr>
<tr>
<td>Paper Manuscript</td>
<td>December 27, 2019 at 12:30 PM</td>
<td>20%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>Dec Exam period</td>
<td>40%</td>
</tr>
</tbody>
</table>

Students will be examined in the first hour of the October 15th week class. This exam will consist of answering 3 mini-essays ie 1 page each, answering questions based on the first 5 weeks of class material.

The final examination (date and location is scheduled by Western) is 2.5 hrs in length will consist of a mixture of essay-type (maximum 1 page), short answer (one paragraph) and one word answer questions dealing with the course material and related readings. It will be scheduled during the final examination period.

Policy on Rounding and Bumping of Grades

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 this course. All students will be treated equally and evaluated based only on their actual achievement. Final grades in 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.
Policy on Plagiarism

The Department of Physiology and Pharmacology strongly condemns plagiarism. Plagiarism is the “act or instance of copying or stealing another’s words or ideas and attributing them as one’s own.” (Excerpted from Black’s Law Dictionary, West Group, 1999, 7th ed. Pg 1170 and the definition used by Western’s Scholastic Discipline document). Plagiarism can be intentional or unintentional and regardless of intent, is a scholastic offence. It should be noted that self-plagiarism, plagiarizing one’s own words for multiple assignments is subjected to the same penalty as plagiarizing another. Courses in Physiology and Pharmacology use turnitin, a similarity checking software embedded within OWL. We encourage all students to run their assignments through turnitin prior to submitting their reports for grading. Any report flagged as yellow (25-49% matching text), orange (50-74% matching text) or red 75-100% matching text) will be considered plagiarism (pending investigation by the instructor). It should be noted that a document could be plagiarized yet still pass the similarity check on turnitin.

The minimum penalty for a first time plagiarism offence of any kind is a grade of zero on the assignment. In addition, details of the offence will be forwarded to Dean’s office and stored. A second offence will carry a much stricter penalty in line with Western’s Scholastic Discipline policies https://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

Cell Phone and Device Policy

The Department of Physiology and Pharmacology is committed to ensuring that testing and evaluation are undertaken fairly. For all tests and exams, it is the policy of the Department of Physiology and Pharmacology that any devices with a battery (e.g. cell phone, tablet, camera, watch, smart watch, ipod) are strictly prohibited. These devices MUST be left either at home or with the students bag/jacket at the front of the room and MUST not be at the test/exam desk or in the individuals 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 Department of Physiology and Pharmacology is not responsible for stolen/lost or broken devices.

6. Additional Information and Statements.

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: http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf.”

“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.”

Absence from course commitments

Illness or Compassionate Accommodations for exams and quizzes: Students are expected to write quizzes and case studies during the scheduled time. In the case of illness or other serious circumstances during the midterm or final exam, you will be required to provide valid medical or supporting documentation as follows:

Senate policy states that “Students seeking academic accommodation on medical grounds for any missed tests, exams, participation components and/or assignments worth 10% or more of their final grade must apply to the Academic Counseling office of their home Faculty and provide documentation. Academic accommodation cannot be granted by the instructor or department.” The UWO policy on accommodation for Medical Illness can be found at: http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf A completed Student Medical Certificate (SMC) is required for medical documentation. Please present this to the physician and then the appropriate Dean’s office. This certificate is available at: http://www.uwo.ca/univsec/handbook/appeals/medicalform.pdf

Please notify Dr. Bell immediately to let me know you will not complete the exam/quiz at the scheduled time. You will be responsible to make alternative arrangements to complete the missing material once the accommodation has been approved by the Dean’s office. For accommodation to be approved for a missed quiz, the reason for missing the quiz or case study has to apply for the entire time the quiz or case study was available, ex. If a student has not taken the quiz or case study, and is suddenly unable to on the last day the quiz is available, an accommodation will not be granted.

Accommodations for Religious Holidays: If you will be absent from an exam for a religious holiday, you are responsible for contacting Dr. Bell in advance of your absence as well as your academic advisor. This policy can be found at: http://www.uwo.ca/univsec/handbook/appeals/accommodation_religious.pdf
A. Absence for medical illness:

Students must familiarize themselves with the Policy on Accommodation for Medical Illness: [https://studentservices.uwo.ca/secure/index.cfm](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 your 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

B. Absence for non-medical reasons:

A clear indication of how non-medical absences from midterms, tutorials, laboratory experiments, or late essays or assignments, will be dealt with must be provided. If documentation is required, such documentation must be submitted by the student directly to the appropriate Faculty Dean’s Office and not to the instructor. It will subsequently be the Dean’s Office that will determine if accommodation is warranted.

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.

**Accommodations for Religious Holidays**

Accommodations for religious holidays will be made in the event that such a holiday coincides with an exam. However, it is the student’s responsibility to inform the course manager well in advance. For details on the procedures for religious accommodations, please refer to the Academic Calendar. These procedures must be followed. Students seeking accommodation are expected to write the scheduled make-up exam.

**Statement on Discussion of Grades**

The Department of Physiology and Pharmacology is committed to fair assessment of student work and encourages students to discuss course content and graded work with their peers in an effort to improve learning.

**For Students:** While all students have the right to question their grade should they feel it’s inaccurate, this exercise should be undertaken in a respectful manner. Professionalism and respect should be demonstrated in all interactions with instructors and peers. When discussing a grade or exam question with a professor or teaching assistant, the discussion should focus on your individual concern. Students should remember that some forms of assessment or specific questions are designed to be more challenging than others. In this situation, there may be several students that don’t receive the correct answer and this does not necessarily mean that there is a problem with the question or assessment. Concerns from one student that indicate that they are communicating on behalf of a larger group of peers (mob/crowd mentality) will not be considered. Concerns with an assessment should be communicated to the instructor and should reflect your individual concern. Threats of any sort will not be tolerated and will be considered a violation of the student code of conduct. It is a requirement that you treat your instructors with respect and you should expect the same respect returned to you by your instructor.
For Professors and Teaching Assistants: All professors and teaching assistants should keep an open mind when discussing graded work with students. Make an effort to listen to students and try and see their point of view. If there was ambiguity in a question or multiple correct answers that a student brings to your attention, you should revise the grade. If the student concern is not adequately justified, explain your reasoning. Students that have concerns regarding an exam question or graded assignment deserve to be treated with respect. Treat with them with the same respect that you expect from them. That being said, concerns from one student that indicate that they are communicating on behalf of a larger group of peers (mob/crowd mentality) should not be considered.

Appeals Policy

The Department of Physiology and Pharmacology follows the Western University student academic appeals policy (http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#SubHeading_181). All appeals to individual graded course components must be submitted to the course instructor within 3 weeks of the grade being released. All final course grade appeals must be received by January 31 (1st term classes) or June 30 (2nd term half classes and full year classes). You must first appeal to the course manager. If this appeal is rejected, then you can appeal to the Undergraduate Chair of the Department of Physiology and Pharmacology (Brad.Urquhart@schulich.uwo.ca). If this appeal is rejected, you may then appeal to the Assistant Dean of the Bachelor of Medical Sciences Undergraduate Education Committee (Candace.Gibson@schulich.uwo.ca).

You must have suitable grounds for appeal which may include: 1) appeal on medical or compassionate grounds; 2) appeal based on extenuating circumstances beyond your control; 3) appeal based on bias, inaccuracy or unfairness. All appeals must be accompanied by a detailed explanation along with supporting documentation. You should submit your appeal as an e-mail with a single attachment. If you have multiple supporting documents, you should merge them into a single document.

Student Accessibility Services:

Students who require accessibility services must seek them from Western University, and any testing accommodations must be done at Western University.
Rules for Exam Conduct by the Student (Candidate)

1. Candidates are responsible for arriving at the examination room on time with adequate supplies (pens, pencils, erasers, calculator and current ID card) and may be admitted five minutes before the beginning of the examination. Upon entering the examination room, candidates will refrain from talking to or communicating with other candidates. Candidates will read any posted Instructions concerning seating and other arrangements within the examination room. Candidates must place their ID card on the left corner of the desk.

2. No candidate may leave the examination room during the first thirty minutes of the examination.

3. Candidates must sign the nominal roll which will be circulated by the proctor during the first thirty minutes of the examination.

4. Candidates arriving later than thirty minutes after the commencement of the examination will not be allowed to write the examination. Under such circumstances candidates should proceed to the Dean of their Faculty for instructions. In the case of evening or Saturday examinations, candidates should proceed to the Department of Admissions and Academic Records for instructions.

5. Candidates prevented from writing an examination by circumstances such as illness, or death in the family shall submit a written petition to the Dean of their faculty. A petition made because of illness should be accompanied by a medical certificate stating the time and duration of the illness, a petition for other reasons should be supported by evidence from a responsible person acquainted with the circumstances.

6. Candidates are forbidden to give information or to receive it from any other candidate during the examination.
7. Candidates will not make use of any books, notes, diagrams or other aids, unless authorized by the examiner, such authorization being clearly stated on the question paper. Candidates who bring any unauthorized notes, books or other aids into the examination room must leave them in an area designated by the Chief Proctor.

8. Smoking is not permitted in the examination room.

9. In the case of an emergency, candidates will be permitted to leave and re-enter the examination room only if accompanied by a proctor. Candidates may be granted permission to move to another available seat if they can provide a legitimate reason.

10. Candidates are responsible for ensuring that they receive the proper question paper.

11. Candidates will use only the approved answer form supplied (question paper, markex card, or answer booklet). When answer booklets are employed, candidates will use them even for rough work and will not write on any other paper. Pages will not be removed from answer books. Candidates must keep all papers on their desk.

12. Candidates who require additional answer books during the examination will not leave their seat but will attract the attention of the proctor by raising a hand.

13. Any suspected irregularities in the question paper or any unusual distractions in the vicinity of the candidates should be brought to the attention of the proctor (Senate, May 23 2958).

14. Upon completion of the examination, candidates will ensure that their student number, name, course number, book number and total number of books, and the name of the instructor are lettered legibly on all answer books. If more than one book has been used they should be numbered consecutively and placed inside Book 1. No answer books or parts of answer books will be taken from the examination room.

15. Candidates will not be allowed to leave the examination room during the last fifteen minutes. Under no circumstances including late arrival, will the time beyond the designated period be extended.

16. At the conclusion of the examination, candidates will remain seated until a proctor has collected their completed examination
booklets. **CANDIDATES WHO LEAVE THE ROOM AND NEGLECT TO SIGN THEIR NAME AND SUBMIT THEIR COMPLETED BOOKLETS TO THE PROCTOR WILL BE CONSIDERED AS NOT HAVING WRITTEN THE EXAMINATION.**

17. For all tests and exams, it is the policy of the Department of Physiology and Pharmacology that any devices with a battery (e.g. cell phone, tablet, camera, watch, smart watch, ipod) are strictly prohibited. These devices MUST be left either at home or with the students bag/jacket at the front of the room and MUST not be at the test/exam desk or in the individuals pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam.

**PLEASE NOTE:**

All exam answer sheets are subject to a common data analysis, which identifies anomalies of statistical significance in the selection of right and wrong answers by pairs of students. The course instructor is required to report all statistically significant results, which suggest that cheating may have occurred. All such incidents will be subject to further investigation. All proven cases of cheating will be subject to severe academic penalties. If you are seated near someone with whom you studied, and you think you may choose many of the same answers as that person, please raise your hand and ask a proctor to reseat you for the exam.

**STUDENTS MAY OBTAIN A COPY OF THESE REGULATIONS AT THE DEPARTMENT OF ADMISSIONS AND ACADEMIC RECORDS.**