1 Course Details

1.1 Calendar Description

Topics covered in this course include drugs used in the treatment of inflammatory, allergic, hormonal, infectious, neoplastic and hemorrhagic/thromboembolic disease. The focus will be on drug targets and mechanisms of action that explain therapeutic and toxicological effects.

Pre-Requisite(s): BIOM*3090

1.2 Course Description

This course is the second in a two-course introduction to pharmacology (the first being BIOM*3090). Drugs used in the treatment of inflammatory, allergic, hormonal, infectious, parasitic, neoplastic, and hemorrhagic/thromboembolic diseases will be discussed from a systemic perspective. By the end of this course students should understand the mechanisms of action of selected drugs and be able to relate these to both the desired clinical effects and common adverse drug reactions.

1.3 Timetable

Timetable is subject to change. Please see WebAdvisor for the latest information.

1.4 Final Exam

Exam time and location is subject to change. Please see WebAdvisor for the latest information.

2 Instructional Support

2.1 Instructor(s)

Ron Johnson BSc, DVM, PhD, DipACVCP
Email: rjohns03@uoguelph.ca
Telephone: +1-519-824-4120 x54041
Office: OVC 1638

Bettina Kalisch BSc, MSc, PhD
Email: bkalisch@uoguelph.ca
Telephone: +1-519-824-4120 x54939
3 Learning Resources

3.1 Recommended Resource(s)


4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. This course is the second in a two course introduction to pharmacology (the first being BIOM*3090). Drugs used in the treatment of inflammatory, allergic, hormonal, infectious, parasitic, neoplastic, and hemorrhagic/thromboembolic diseases will be discussed from a systemic perspective. By the end of this course students should understand the mechanisms of action of selected drugs and be able to relate these to both the desired clinical effects and common adverse drug reactions.

5 Teaching and Learning Activities

Lecture Times & Location:

Monday, Wednesday, & Friday 8:30 – 9:20 a.m., MCLN 102.

5.1 Lecture

Fri, Sep 7
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic(s)</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon, Sep 10</td>
<td>Introduction to Endocrine Pharmacology</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Wed, Sep 12</td>
<td>Endocrine Pancreas</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Fri, Sep 14</td>
<td>Adrenal Axis I</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Mon, Sep 17</td>
<td>Thyroid Gland</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Wed, Sep 19</td>
<td>Gonadal Axis I</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Fri, Sep 21</td>
<td>Gonadal Axis II</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Mon, Sep 24</td>
<td>Posterior Pituitary and Bone Mineral Homeostasis</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Wed, Sep 26</td>
<td>GH IGF</td>
<td>MacLusky</td>
</tr>
<tr>
<td>Fri, Sep 28</td>
<td>Principles of Antibacterial Drug Therapy</td>
<td>Hanna</td>
</tr>
<tr>
<td>Mon, Oct 1</td>
<td>Beta Lactams</td>
<td>Hanna</td>
</tr>
<tr>
<td>Wed, Oct 3</td>
<td>Aminoglycosides</td>
<td>Hanna</td>
</tr>
<tr>
<td>Fri, Oct 5</td>
<td>Tetracyclines &amp; Sulfonamides</td>
<td>Hanna</td>
</tr>
<tr>
<td>Mon, Oct 8</td>
<td>THANKSGIVING HOLIDAY, no classes scheduled</td>
<td></td>
</tr>
<tr>
<td>Wed, Oct 10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Week of October 12**

**Fri, Oct 12**

**Topic(s):** Fluoroquinolones  
Instructor: Hanna

**Mon, Oct 15**

**Topic(s):** Macrolides, Chloramphenicol  
Instructor: Hanna

**Wed, Oct 17**

**Topic(s):** Antifungal Agents  
Instructor: Hanna

**Fri, Oct 19**

**Topic(s):** Inflammation  
Instructor: Hanna

**Mon, Oct 22**

**Topic(s):** NSAIDS  
Instructor: Hanna

**Wed, Oct 24**

**Topic(s):** Glucocorticoids  
Instructor: Hanna

**Fri, Oct 26**

**Topic(s):** Drugs Used in Hemorrhagic Disease  
Instructor: Johnson

**Mon, Oct 29**

**Topic(s):** Drugs Used in Thromboembolic Disease  
Instructor: Johnson

**Wed, Oct 31**

**Topic(s):** Antihyperlipidemic Drugs  
Instructor: Johnson

**Fri, Nov 2**

**Topic(s):** Nutraceuticals  
Instructor: Johnson
40th class day

**Mon, Nov 5**

**Topic(s):**  
*No class today*

**Wed, Nov 7**

**Topic(s):** Antiparasitic Drugs  
**Instructor:** Peregrine

**Fri, Nov 9**

**Topic(s):** Antiparasitic Drugs  
**Instructor:** Peregrine

**Mon, Nov 12**

**Topic(s):** Antiparasitic Drugs  
**Instructor:** Peregrine

**Wed, Nov 14**

**Topic(s):** Principles of Cancer Development  
**Instructor:** Kalisch

**Fri, Nov 16**

**Topic(s):** Anticancer Drugs  
**Instructor:** Kalisch

**Mon, Nov 19**

**Topic(s):** Anticancer Drugs  
**Instructor:** Kalisch

**Wed, Nov 21**

**Topic(s):** Anticancer Drugs  
**Instructor:** Kalisch

**Fri, Nov 23**

**Topic(s):** Antiviral Drugs  
**Instructor:** Kalisch

**Mon, Nov 26**

**Topic(s):** Antiviral Drugs  
**Instructor:** Kalisch

**Wed, Nov 28**

**Topic(s):** Exam review  
**Instructor:** All

**Fri, Nov 30**
6 Assessments

6.1 Assessment Details

Quizzes (10%)
5 on-line quizzes, 2% per quiz. Details regarding quiz availability will be provided on the Courselink/Desire2Learn course website.

Midterm examination (40%)
Date: To be announced (a room has been requested for a date between Oct 18 and Oct 26), location to be announced
This examination will cover the first half of the course (endocrine, antibacterial, and antifungal pharmacology).

Final examination (50%)
Date: Scheduled by the Registrar
This examination will cover the second half of the course (starting with antiinflammatory pharmacology).

Optional cumulative final examination (90%)
This examination will cover all subjects in the course. It will be written in the same location at the same time as the regular final examination.

Any student who does not write the midterm must write the cumulative final examination.

Any other student may choose to drop their midterm grade and write the cumulative final examination, but must notify the course coordinator of their intention to do so by noon on Nov 23rd (we need time to print the necessary numbers of each exam). A sign-up list will be made available on the course website (on Courselink) prior to this date.

7 Course Statements

7.1 Course WebSite
For class information, course outline, quiz dates, and grades please consult the course website (accessible via Courselink).

Instructors will aim to post lecture notes on this site by 7 pm the evening before each lecture.

7.2 Course Evaluation
Students will be asked to complete a questionnaire on the instructors’ teaching abilities, either following their final lectures or during the last two weeks of classes. This is part of the information required by the University to evaluate faculty performance for purposes of tenure and promotion. It will be administered by a third party and the evaluations will be delivered to the instructors only after the final grades have been submitted to the Registrar’s
Office. The department Chair will see all numerical ratings, but only those comments that are accompanied by a student name (electronic selection in online evaluations).

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The regulations and procedures for Academic Consideration are detailed in the Undergraduate Calendar.

8.3 Drop Date

Courses that are one semester long must be dropped by the end of the fortieth class day; two-semester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for Dropping Courses are available in the Undergraduate Calendar.

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required, however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance, and not later than the 40th Class Day.

More information: www.uoguelph.ca/sas

8.6 Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University’s policy on academic misconduct regardless of their
location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

8.7 Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph’s procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.