

**Medical Sciences 4100G
One Health 4100G
Winter 2023 Supplemental Syllabus**

The Supplemental Syllabus contains core course-specific information, including more details regarding the assessments.

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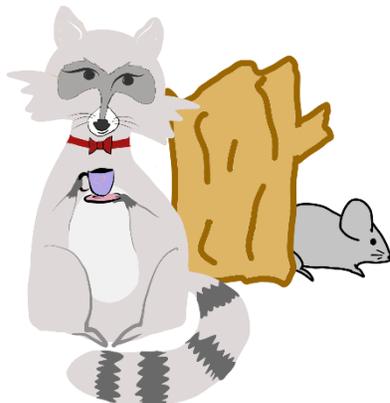
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Course Materials

There are no required textbooks.

The course design emphasizes the presentation of key themes and examples (lectures), which students are expected to apply toward the scholarly investigation of animal-related topics (assessments), particularly as it relates to critical analysis and interpretation of academic materials.

There are three recommended texts that may augment presented class material, which are available online through UWO libraries:

- *Sourcebook of Models for Biomedical Research* (P. M. Conn, ed.), 2008
- *Comparative Medicine: Anatomy and Physiology* by Jensen-Jarolim, Erika, 2014
- *Beyond One Health: From Recognition to Results* (J. A. Herrmann, Y. J. JohnsonWalker, ed), 2018

Technical Requirements

- A laptop or computer
- Stable internet connection



iClickers

Yes! iClickers will be utilized during lectures to allow students to share opinions with the class, facilitate personal engagement of the presented material and stimulate discussion. Each student's privacy will be protected with respect to data gathered from the responses. More information about iClickers can be found at: [iClicker - OWL Help - Western University \(uwo.ca\)](https://www.uwo.ca/technology/owlservices/owlservices/iClicker-OWL-Help-Western-University-uwo.ca)

Microsoft Teams

We may use Microsoft Teams during the Topic Discussions to promote collaboration and engagement with other students and the instructor. For more information: [Microsoft Teams - Western Technology Services - Western University \(uwo.ca\)](https://www.uwo.ca/technology/services/microsoft-teams-western-technology-services-western-university-uwo.ca)

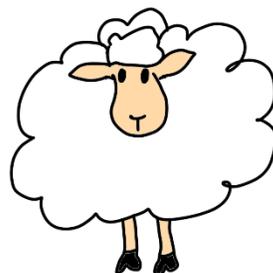
Course Assessments Overview

The following table outlines the course assessments with point distribution, which will determine the final grade. See Course Assessment Descriptions and Guidelines section below for further details.

Assessment	Points (Total for section)	Date
1. Quizzes	(10)	Tuesdays
1. Essay	(25)	
a. Submit essay topic (optional)	0	January 24
b. Submit general outline	5	February 9
Choice of option 1 or 2*:		
c. Option 1	8	March 14
a. Full essay	12	April 4
b. Full essay revisions		
d. Option 2		
a. Essay only	20	April 4
		January 17
		January 26
2. Assignments	(30)	February 7
		February 16
		March 7
		March 21
3. Participation	(10)	January 17
		February 2
		February 28
		March 14
4. Final exam	(25)	Final exam period
Total points for the course	(100)	

* Students will have a choice of a two-step essay submission (option 1) or one-step (option 2).

A detailed and comprehensive set of regulations concerning the scheduling of tests, assignments, etc. is available at: http://www.uwo.ca/univsec/academic_policies/examinations.html



Course Assessment Descriptions and Guidelines

The assessments are designed to promote the analysis and interpretation of scientific information from multiple different sources to develop novel insights and solutions (critical thinking and synthesis emphasis).

- All assignments are due at 11:55 pm EST unless otherwise specified
- Written assignments will be submitted to Turnitin (unlimited submissions)
- Unless otherwise noted, the **audience** for written assignments:
 - An adult with college or university undergraduate education, but not a strong background in science (i.e. university science non-major, but took basic biology courses).

1. Quizzes (10%):

Objective: Identify key information presented during lecture.

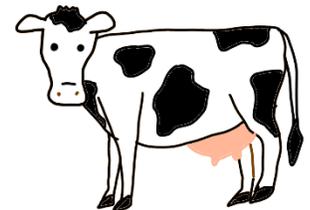
Guidelines:

- There will be 12 weekly online OWL quizzes with the two lowest scores dropped.
 - No accommodations will be provided for missed quizzes
- The quiz will cover key points from that week's lecture material in the form of multiple choice or short answer questions.
- The quiz will open in OWL on Thursday and will close by 11:55 PM on the following Tuesday.
 - **** Quizzes will receive a 0% grade for that week if incomplete when the quiz closes on OWL****

2. Essay (25%): **For this research essay, identify a disease/problem that affects wildlife, livestock, and/or companion animals. Research an aspect of that disease/problem (i.e. comparative pathology, one health) using scientific literature.** Any discussion will need to be appropriately supported by scientific research articles (at least 10 primary articles). Effectively communicate your findings in a clear and logical manner. The essay will be assessed in stages: topic, outline, and full essay (details below). We recognize that these stages represent a work in progress, which may differ in content and focus as the essay evolves (as it often does!). The expectation is the essay is your own work.

Key information to include in the essay are:

- Background
- Main topic discussion
- Conclusions
- Future directions (proposals based on your research)
- Bibliography/references
 - Style: American Psychological Association style ((Author, year) with citations formatted alphabetically).



- Greater than 10 peer-reviewed primary scientific articles should be included and discussed to support your points/ideas

Essay Audience:

An adult with college or university undergraduate education, but not a strong background in science (i.e. university science non-major, but took basic biology courses).

ESSAY ASSIGNMENTS

I. Essay Topic (Optional, no points): January 24, 2023

Guideline:

- Submit an essay topic if you would like general feedback regarding your topic
- The topic should be 1-2 sentences
 - Tip: To streamline research efforts, topic should be very specific and convey the focus of your essay.

Example:

Specific: Consequences of aflatoxins on organic vs. conventional dairy industries in North America.

Not very specific: Toxic mold in food

II. General outline (5 pts): February 2, 2023

Consider this a map of your essay, which lists the points you will make and in the order that you will make them. The outline is a work in progress.

Guidelines:

- The goal of the general outline is to provide a roadmap of ideas and topics planned for the essay with information proposed to support them
- For the outline, include the following:
 - Thesis statement: one or more sentences
 - Defines the focus and scope of the essay
 - Communicates what information is in the essay
 - Headings and subheadings to reflect main points
 - Supporting ideas/arguments for each main point
 - Conclusions
 - References are not needed



Example of format: Please note that this is meant to reflect the type of information that should be included in the outline. This exact approach (i.e. paragraph using a case study) may not be appropriate for other essays.

- 1) *This paragraph will use a case study, the 1998 Malaysian Nipah virus outbreak, to show the impact of deforestation on ecological equilibrium and Nipah virus transmission*

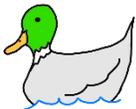
- a) *Slash-and-burn deforestation in Cambodia clears land for agriculture and cattle farming*
 - i) *Habitat loss forces mass migration of Pteropid bats to Malaysia*
 - ii) *Pteropid bats spread disease to hogs*
 - iii) *Contaminated pork causes human epidemic*
- o *Conclusion: Human activities causing ecological disruption, such as agriculture and deforestation, have enormous potential to promote emergence of widespread disease*

III. **Full essay (20 pts):** There are two options for your full essay submission. One is a two-step submission designed to provide feedback with an opportunity to resubmit an updated version at a later date. The other option is to submit the full essay once.

- o Two-step submission: March 14 (8 pts), April 4 (12 pts)
 - Full essay submitted on March 14 will be graded and returned with comments. Revised essays due April 5.
- o One-step submission: April 4 (20 pts)
 - Full essay submitted once on April 5

Guidelines:

- o **Length: 5-6 pages (single space) or 10-12 pages (double space); approximately 2500 words**
 - **Not including references**
- o **Maximum: 10 pages (single space) or 20 pages (double space) without references**
- o References in APA style (suggested)



3. **Assignments (30%):** There will be 6 assignments with the lowest 2 scores dropped. The assignments are designed to facilitate academic application and integration of concepts presented in lecture.

Guidelines:

- Throughout the term, 6 assignments (equally weighted) with lowest 2 dropped
 - o Length: 500 words without references
 - o Paragraph form
 - o Due 7-10 days after assignment is posted on OWL
- Questions originate from lecture material and topic discussion sessions (see section 4 below)
- Additional research and/or reading reading will be required
- Example question: In lecture, we learned that liver morphology can differ between pigs and humans. Do these differences matter for the medical sciences and/or the one health paradigm? Why or why not? Provide an example to support your claim.

4. **Participation (10%):** There will be 4 equally weighted discussion sessions. The discussions are designed to allow students a dynamic forum to engage with the

course content and themes. If students are unable to attend the discussion session, an alternate written assignment will need to be completed for credit.

Guidelines:

- There will be 4 equally weighted sessions
 - Background reading will be assigned (posted on OWL week prior to class)
 - Students are expected to have read the assigned materials, actively participate in the discussion and activities

5. **Final Exam (25%): To be scheduled**

Guidelines:

- This is a take-home final exam
 - Students will have 10 days to complete and submit the exam
- The questions will require a paragraph or short essay.
 - There will be no multiple choice questions.
- The final exam is cumulative
 - Students are expected to utilize themes presented throughout the course
 - Additional research and/or reading will be required

