



# ANSC\*4610 Critical Analysis in Animal Science

Winter 2020

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 1.00 - January 06, 2020

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## 1 Course Details

### 1.1 Calendar Description

Students are guided to independently research and critically review a topic of emerging importance in animal biosciences. Students select a topic in consultation with the instructor.

**Pre-Requisites:** 15.00 credits including 2.00 in ANSC or EQN

**Restrictions:** Instructor consent required.

### 1.2 Course Description

At the starting of the course, a class student survey will be conducted by the instructor to facilitate and allow class students an opportunity to narrow down and select their interested specific disciplinary topic areas for further topic analysis and expertise development. Then class students will learn how to effectively carry out scientific literature research in working with a university librarian and the course instructor. Students will be further guided to search and define their critical review paper topic and select their original papers for critical analysis in consultation with the course instructor. The instructor will demonstrate to the class how to conduct a critical review, prepare written reviewing reports, and present reviewing results in a panel discussion format as a primary and a secondary reviewer for an original research paper. The instructor will further demonstrate to the class how to present a critical review topic paper to the public. Class student critical review papers will also be presented to their class group as a formal seminar. Thus, students are guided to independently search and critically review a topic of emerging importance in animal biosciences. This course is designed for students in their final year of the Animal Biology and Animal Science majors.

### 1.3 Timetable

Thursdays 2:30pm - 5:20pm, Room: 030 Animal Science/Nutrition Building (ANNU)

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

### 1.4 Final Exam

Not Applicable

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## 2 Instructional Support

### 2.1 Instructional Support Team

<b>Instructor:</b>	Ming Fan
<b>Email:</b>	mfan@uoguelph.ca
<b>Telephone:</b>	+1-519-824-4120 x53656
<b>Office:</b>	ANNU 224
<b>Office Hours:</b>	10:00am - 12:00am and 1:00pm - 2:00pm - Thursdays

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## 3 Learning Resources

### 3.1 Required Resources

**Required Texts (Textbook)**  
None

### 3.2 Recommended Resources

**Recommended Texts (Textbook)**  
None

### 3.3 Additional Resources

**Lab Manual (Lab Manual)**  
None

**Other Resources (Other)**

Student's major review paper based Power point presentation PDF files will be posted on the course site following class presentations by using D2L by the instructor.

### 3.4 Additional Costs

None

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## 4 Learning Outcomes

### 4.1 Course Learning Outcomes

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

1. To become familiar with Web-based literature search tools to effectively search academic publications from referred journals.
  2. To critically obtain conceptual findings through reading most recently published original research papers in referred journals.
  3. To learn how to write a review article in emerging animal bioscience topic areas.
  4. To learn how to present an overview in emerging animal bioscience topic areas.
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## 5 Teaching and Learning Activities

### 5.1 Lecture

Thu, Jan 9

Topics:

- To discuss course delivery and requirements
- To conduct in--**class student survey and choose a review topic**
- To arrange student paper review and presentation schedules

Thu, Jan 16

Topics:

- Web-**based Literature Search with the instructor**
- To search original research papers by students in class

Thu, Jan 23

Topics:

- How to conduct a critical reviewing of an original research

paper

- Critical reviewing of an original research paper by the instructor

- How to effectively develop an outline and write up a review paper

**Thu, Jan 30**

**Topics:** - Critical reviewing of original research papers by class students

**Thu, Feb 6**

**Topics:** - Critical reviewing of original research papers by class students

**Thu, Feb 13**

**Topics:** - Critical reviewing of original research papers by class students

**Mon, Feb 17 - Fri, Feb 21**

**Topics:** - Winter Break! (no class!)

**Thu, Feb 27**

**Topics:** - Critical reviewing of original research papers by class students

**Thu, Mar 5**

**Topics:** - How to prepare and present a major review paper in a seminar

- Major reviewing-based presentation(s) for demonstration:  
"Group Housing for Pregnant Sows - How to be Successful"  
by Dr. Laura Eastwood

"Novel and Disruptive Biological Strategies for Resolving Gut Heath Challenges in Monogastric Food Animal Production"  
By Dr. Ming Z. Fan

**Thu, Mar 12**

**Topics:** - Final class oral presentations of student major review papers

**Thu, Mar 19**

**Topics:** - Final class oral presentations of student major review papers

**Thu, Mar 26**

**Topics:** - Final class oral presentations of student major review papers

**Thu, Apr 2**

**Topics:** - Final class oral presentations of student major review papers

## **5.2 Seminar**

**Topics:** None

## **5.3 Lab**

**Topics:** None

## **5.4 Field Trip**

Not Applicable

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# **6 Assessments**

## **6.1 Assessment Details**

**Course Assignments and Tests (0%)**

<b>Assignment or Test</b>	<b>Due Date</b>	<b>Contribution to Final Mark (%)</b>	<b>Learning Outcomes Assessed</b>
Participation in class discussions before the Winter Break	Feb. 18, 2020	5	Outcomes #1 to 4
Major review paper title and outline	Feb. 28, 2020	10	Outcomes #1 to 3
Paper critique as a primary reviewer (once)	March 10, 2020	20	Outcomes #1 to 3
Paper critique as a secondary reviewer (2 times)	March 10, 2020	10 (2 x 5% each)	Outcomes #1 to 3
Major review paper oral presentation to class	April 04, 2020	20	Outcome #4
Participation in class discussions after the Winter Break	April 04, 2020	5	Outcomes #1 to 4
Major review paper	April 16, 2020	30	Outcomes #1 to 3

#### **Additional Notes (0%)**

Marking rubrics for students' class participation will be provided to class students at the beginning of the semester.

Specific guidelines regarding how to lead an original paper critique as a primary reviewer and a secondary reviewer as well as marking rubrics will be provided to class students at the beginning of the semester.

Specific guidelines regarding how to write a major review paper and the review paper marking rubrics will be provided to class students at the beginning of the semester.

Specific guidelines regarding how to prepare a PowerPoint file; present an oral major review paper to class; and the oral presentation evaluation rubrics will be provided to class students at the beginning of the semester.

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## **7 Course Statements**

### **7.1 Grading Policies**

Students' paper critique reports, major review paper outline and their finalized major review paper will be submitted to the instructor for marking as a Word file via email by following the suggested due dates. Late penalties of 10% per day will be assessed for late submissions.

### **7.2 Course Policy on Group Work**

Not applicable.

### **7.3 Course Policy regarding use of electronic devices and recording of Lectures**

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

## 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 grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

### 8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg->



regchg.shtml

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

## 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.

For Guelph students, information can be found on the SAS website  
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website  
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

## 8.6 Academic Integrity

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 encourages academic integrity. 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.

Undergraduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

## **8.7 Recording of Materials**

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, 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 that apply to undergraduate, graduate, and diploma programs.

Academic Calendars

<https://www.uoguelph.ca/academics/calendars>

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