



ANSC*4610 Critical Analysis in Animal Science

Winter 2023

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 2.00 - January 06, 2023

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

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 verbally 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

Thurs. 2:30 pm - 5:20 pm; face to face or virtual classes via Zoom (in case of campus-wide close-down). Instructor will email changes to class students. Please also see WebAdvisor for the latest information.

Class room for face to face classes: ANNU, 030 or virtual classes

1.4 Final Exam

There is no final exam for this course.

2 Instructional Support

2.1 Instructional Support Team

Instructor:	Ming Fan
Email:	mfan@uoguelph.ca
Telephone:	+1-519-824-4120 x53656
Office:	ANNU 224
Office Hours:	Instructional Support Team

Instructor: Ming Fan

Email: mfan@uoguelph.ca

Office: ANNU 224

Communicating with your Instructor

You can reach out in class and/or send email your instructor. The instructor will attempt to respond to your email within 24 hours. You may book a video meeting on Zoom (or Virtual Classroom on the CourseLink).

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)

Other Resources

Course syllabus, guidelines and other class related information will be posted on the course site as PDF files by the course instructor through using D2L. Student original research papers to be used for class presentation and discussions will be circulated to class students via email by the course instructor.

Course Technologies

CourseLink System Requirements

You are responsible for ensuring that your computer system meets the necessary system requirements. Use the browser check tool to ensure your browser settings are compatible and up to date. (Results will be displayed in a new browser window).

<http://spaces.uoguelph.ca/ed/system-requirements/>
<https://courselink.uoguelph.ca/d2l/systemCheck>

Course Technologies

This course is being offered using CourseLink (powered by D2L's Brightspace), the University of Guelph's online learning management system (LMS). By using this service, you agree to comply with the University of Guelph's Access and Privacy Guidelines. Please visit the D2L website to review the Brightspace privacy statement and Brightspace Learning Environment web accessibility standards.

<http://www.uoguelph.ca/web/privacy/>

<https://www.d2l.com/legal/privacy/> <https://www.d2l.com/accessibility/standards/>

Technical Support

If you need any assistance with the software tools or the CourseLink website, contact CourseLink Support.

Email: courselink@uoguelph.ca

Tel: 519-824-4120 ext. 56939 Toll-Free (CAN/USA): 1-866-275-1478

Support Hours (Eastern Time):

Monday thru Friday: 8:30 am–8:30 pm

Saturday: 10:00 am–4:00 pm

Sunday: 12:00 pm–6:00 pm

3.4 Additional Costs

None

3.4 Course Technology and Technical Support

Zoom

This course will use Zoom for lectures. Check your system requirements to ensure you will be able to participate.

<https://opened.uoguelph.ca/student-resources/system-and-software-requirements>

3.4 Library Access

"The UofG library provides support for writing (including English and French language assistance), studying, time management, and presentation skills. You can share information about us in your course outlines, Courselink materials, and PowerPoint presentations. Please find editable text about our appointments below. We have also prepared Powerpoint slides, which you are welcome to share in your courses.

We find students are more likely to use services that are endorsed by instructors, so we appreciate your support. Contact us if you would like additional information.

Please note: We also provide in-class writing and learning skills workshops. Send us a request and we will do our best to accommodate you.

- Workshop Requests for Writing Services
- Workshop Requests for Learning Services

As a student, you have access to the University of Guelph's library collection, including both physical and electronic materials. For information on checking out or couriating physical library items, accessing electronic journals and returning items to the library, visit the library's website.

If you are studying off campus and would like to access the library's electronic resources, use the Off Campus Login and login using your Single Sign On credentials or using your last name and library barcode.

<https://www.lib.uoguelph.ca/>

<https://www.lib.uoguelph.ca/campus-login>

Ares

How to access course reserve materials through the University of Guelph McLaughlin Library. To access these items, select **Ares** on the navbar in CourseLink. Note that you will need your Central Login ID and password in order to access items on reserve.

For further instructions on accessing reserve resources, visit [How to Get Course Reserve Materials](#).

If at any point during the course you have difficulty accessing reserve materials, please contact the e-Learning Operations and Reserve Services staff at:

Tel: 519-824-4120 ext. 53621

Email: libres2@uoguelph.ca

<https://www.lib.uoguelph.ca/find/course-reserves-ares/how-get-course-reserve-material>

3.4 Technical Skills

As part of your learning experience, you are expected to use a variety of technologies for assignments, lectures, teamwork, and meetings. In order to be successful in this course you will need to have the following technical skills:

- Manage files and folders on your computer (e.g., save, name, copy, backup, rename, delete, and check properties);
- Install software, security, and virus protection;
- Use office applications (e.g., Word, PowerPoint, Excel, or similar) to create documents;
- Be comfortable uploading and downloading saved files;
- Communicate using email (e.g., create, receive, reply, print, send, download, and open attachments);
- Navigate the CourseLink learning environment and use the essential tools, such as Dropbox, Quizzes, Discussions, and Grades (the instructions for this are given in your course);
- Access, navigate, and search the Internet using a web browser (e.g., Firefox, Internet Explorer); and
- Perform online research using various search engines (e.g., Google) and library databases.

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 as well as review papers in referred journals and develop critical reviewer's written reports.
 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 12

Topics:

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

Thu, Jan 19

Topics:

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

Thu, Jan 26

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 a review paper outline and write up a review paper

Thu, Feb 2

Topics:

- Critical reviewing of original research papers by class students

Thu, Feb 9

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

Thu, Feb 16

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

Mon, Feb 20 - Fri, Feb 24

Topics: - Winter Break (no class!)

Thu, Mar 2

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

Thu, Mar 9

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

- Major reviewing-based presentation for demonstration:

"An overview of the current big challenges of the swine industry" By Dr. Laura Eastwood.

"Monomodular and Multi-functional Processive Endocellulases for Improving Fibre Utilization and Reducing Environmental Footprint in Pigs" By Dr. Ming Z. Fan.

Thu, Mar 16

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

Thu, Mar 23

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

Thu, Mar 30

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

Thu, Apr 6

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

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Course Assignments and Tests - Table of Information	0
Participation in Class Discussion before the Winter Break	5
Major Review Paper - Title and Outline	10
Paper Critique as a Primary Reviewer	20
Paper Critique as a Secondary Reviewer	10
Major Review Paper - Oral Presentation to Class	20
Participation in Class Discussion after the Winter Break	5
Major Review Paper	30
Total	100

6.2 Assessment Details

Course Assignments and Tests - Table of Information (0%)

Assignment or Test	Due Date	Contribution to Final Mark (%)	Learning Outcomes Assessed
Participation in class discussions before the Winter Break	Feb. 16, 2023	5	Outcomes #1 to 4
Major review paper title and outline	Mar. 2, 2023	10	Outcomes #1 to 3
Paper critique as a primary reviewer (once)	March 9, 2023	20	Outcomes #1 to 3
Paper critique as a secondary reviewer (2 times)	March 9, 2023	10 (2 x 5% each)	Outcomes #1 to 3
Major review paper oral presentation to class	Mar 16 - Apr. 6, 2023	20	Outcome #4
Participation in class discussions after the Winter Break	April 6, 2023	5	Outcomes #1 to 4
Major review paper	April 20, 2023	30	Outcomes #1 to 3

Participation in Class Discussion before the Winter Break (5%)

Date: Thu, Jan 12 - Thu, Feb 16

Learning Outcome: 1, 2, 3, 4

Major Review Paper - Title and Outline (10%)

Date: Thu, Mar 2

Learning Outcome: 1, 2, 3

Paper Critique as a Primary Reviewer (20%)

Date: Thu, Mar 9

Learning Outcome: 1, 2, 3

Paper Critique as a Secondary Reviewer (10%)

Date: Thu, Mar 9

Learning Outcome: 1, 2, 3
(2 x 5% each)

Major Review Paper - Oral Presentation to Class (20%)

Date: Thu, Mar 16 - Thu, Apr 6

Learning Outcome: 4

Participation in Class Discussion after the Winter Break (5%)

Date: Thu, Mar 2 - Thu, Apr 6

Learning Outcome: 1, 2, 3, 4

Major Review Paper (30%)

Date: Thu, Apr 20

Learning Outcome: 1, 2, 3

6.3 Additional Notes

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 develop a major review paper outline and write up the review paper; and their marking rubrics will be provided to class students at the beginning of the semester.

Specific guidelines regarding how to prepare an overview PowerPoint file; and 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.

7 Course Statements

7.1 Grading Policies

Students' PowerPoint presentation files will be submitted to the instructor via dropbox on the CourseLink site immediately after class presentations for class posting on the course site. Students' paper critique and major review paper assignments are to be prepared in a MS Word file and will be submitted to the instructor for marking via dropbox on the CourseLink site by following the suggested due dates. There will be a reduction of 5% as a late penalty for each day.

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. By enrolling in a course, unless explicitly stated and brought forward to their instructor, it is assumed that students agree to the possibility of being recorded during lecture, seminar or other "live" course activities, whether delivery is in-class or online/remote. If a student prefers not to be distinguishable during a recording, they may:

1. turn off their camera
2. mute their microphone
3. edit their name (e.g., initials only) upon entry to each session
4. use the chat function to pose questions.

Students who express to their instructor that they, or a reference to their name or person, do not wish to be recorded may discuss possible alternatives or accommodations with their instructor.

Online Behaviour

Inappropriate online behaviour will not be tolerated.

Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor or fellow students

- Using obscene or offensive language online
- Copying or presenting someone else's work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz or completing a quiz for/with another student
- Stating false claims about lost quiz answers or other assignment submissions
- Threatening or harassing a student or instructor online
- Discriminating against fellow students, instructors and/or TAs
- Using the course website to promote profit-driven products or services
- Attempting to compromise the security or functionality of the learning management system
- Sharing your user name and password
- Recording lectures without the permission 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 make a booking at least 14 days in advance, and no later than November 1 (fall), March 1 (winter) or July 1 (summer). Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time.

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>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g.. final exam or major assignment).

8.11 Covid-19 Safety Protocols

For information on current safety protocols, follow these links:

- <https://news.uoguelph.ca/return-to-campus/how-u-of-g-is-preparing-for-your-safe-return/>
- <https://news.uoguelph.ca/return-to-campus/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.
