



ANSC*4710 Research in Animal Biology II

Fall 2020

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 1.00 - August 24, 2020

1 Course Details

1.1 Calendar Description

This course is a continuation of ANSC*4700, Research in Animal Biology I. It allows more sophisticated projects to be undertaken or to provide an opportunity to build upon the work of ANSC*4700. Evaluation of the course requires a greater emphasis on data analysis or experimental design than for ANSC*4700. Selection of a faculty advisor and approval of course coordinator must be obtained before course selection.

Pre-Requisites:

ANSC*4700

Restrictions:

Registration in Animal Biology Major or Animal Science Major. Instructor consent required.

1.2 Course Description

This course provides an opportunity for students to become more actively involved in a specific research topic in a discipline of their choosing. The student will work closely with an individual faculty advisor and be part of their research team working on a project of mutual interest. This course allows the student to review current literature and analyze lab data and/or design new protocols to further research development and knowledge in their chosen research area. This course follows ANSC*4700,

Pre/Co-requisites: ANSC-4700

1.3 Timetable

Class Schedule and Location:

There will be a class meeting at the beginning of the semester (date and time will be

announced on Courselink). Students work closely with their research project advisor to determine a schedule for their regular one on one weekly meeting.

1.4 Final Exam

No final exam for this course.

2 Instructional Support

2.1 Instructional Support Team

Instructor:	Julang Li
Email:	jli@uoguelph.ca
Telephone:	+1-519-824-4120 x52713
Office:	Online
Office Hours:	Thursday 2-3:30 pm by appointment

2.2 Teaching Assistants

Teaching Assistant:	Lauren Fletcher
Email:	lfletc03@uoguelph.ca
Office:	Online
Office Hours:	online, by appointment

2.3 Communicating with your advisor, course coordinator, TA

Announcements: The instructor and TA will use **Announcements** on the Course Home page to provide you with course reminders and updates. Please check this section frequently for course updates from your instructor.

Email: If you have a conflict that prevents you from completing course requirements, or have a question concerning a personal matter, you can send your advisor or course coordinator or TA a private message by email. The instructor will attempt to respond to your email within 24 hours.

Video Call: If you have a complex question you would like to discuss with your advisor, coordinator, or , you may book a video meeting with them. Video meetings depend on availability and are booked on a first come first served basis.

3 Learning Resources

3.1 Course Technology and Technical Support

Course Technologies and Technical Support

System and Software Requirements

This course will use a variety of technologies including;

Class introductory meeting

Zoom (access via courselink)

Student poster presentation

Electronic poster and audio presentation

Meeting with advisor

Online platform of you and your supervisor's choice

To help ensure you have the best learning experience possible, please review the list of system and software requirements.

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

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

CourseLink

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

Teams (via Office 365)

If you are using Teams describe how and when.

Office 365 Teams is a collaboration service that provides shared conversation spaces to help teams coordinate and communicate information. This course will use Teams for one on one meetings with your Instructor. It is recommended that you use the desktop version of Teams. As a student you are responsible for learning how to use Teams and it's features.

For Teams Support visit the CCS website for more information.

<https://www.uoguelph.ca/ccs/services/office365/teams>

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>

3.1 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.

Contact your course coordinator, TA or advisor if you need support with any of the above.

3.1 Assignment Submissions

Written assignments should be submitted electronically via email to your advisor.

Electronic poster and audio presentation created using powerpoint and submitted electronically as instructed in the poster outline.

4 Learning Outcomes

At the completion of this course, the student will have had the unique opportunity to explore an individual research project and achieve these learning outcomes:

4.1 Course Learning Outcomes

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

1.
 - Develop an understanding of the research in a specific field of interest
 2.
 - Critically assessed the primary literature in the research area
 3.
 - Further develop written communication skills
 4.
 - Further develop oral and visual presentation skills
 5.
 - Obtain research experience and interpret scientific data
 6.
 - Work independently and take responsibility for their own research
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5 Teaching and Learning Activities

This course is very unique in that the content depends upon the area of research chosen by the student in conjunction with the research advisor. During the course of the semester, the student will explore research in their chosen area of research and in conjunction with the research advisor, follow through on a research proposal developed in ANSC-4700. The research proposal should represent a research project that can be accomplished in a single semester.

To complete the course requirements for ANSC-4710, students will write a research paper on their work and present a poster at the end of the semester. The student is expected to incorporate aspects of their literature review and research proposal from ANSC-4700 in the paper for ANSC-4710.

5.1 Research Paper 50%

The research paper should outline the background and current issue of the field of your focus, your research objectives, experimental design of your project (methods used), and the results obtained. You should include a discussion/conclusion section to explain what the results mean, as well as explain the significance of the research and future directions.

Requirements: Approximately 18 pages double-spaced, not including your data figures, margins 1-inch all around, 12-pt Times New Roman font. Page limits do not include your reference list. The report should be written in a format of a journal paper of the advisors choosing. Discuss the format and contents of the review with your advisor as they will be grading the review.

It is appropriate for the supervisor to read a draft of the report once and offer specific suggestions for improvement before the student submits the final version. This feedback is crucial to the learning process and students should schedule this preliminary reading with their advisors well in advance of the due date of the report.

5.2 Poster Presentation 25%

Please see ANSC-4710 Poster Outline for instructions.

Mark breakdown:

Poster Presentation 23%

Please see ANSC-4710 Poster Outline for instructions.

Peer evaluation of posters 2%

Submission of 15 peer poster presentation reviews, this could be in the form of asking a question or commenting on the content, presentation skills, and poster mechanics & structure on the poster in the Courselink discussion board – see ANSC-4710 Poster Outline.

5.3 Student Performance (assessed by the supervisor) 25%

The student should discuss the specific criteria for this assessment with the supervisor at the beginning of the semester, to make sure the expectation is clear.

The assessment is based on the criteria set between the supervisor and the student at the beginning of the semester. This could include but is not limited to: initiative taking, time management, development of technical competence, research performance, and quality of laboratory notes, data organizing, interaction with others in the laboratory.

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Research Paper	50
Poster Presentation	25
Student Performance	25
Total	100

6.2 Assessment Details

Research Paper (50%)

Learning Outcome: 1, 2, 3, 5, 6

A paper that is graded by the research advisor

Poster Presentation (25%)

Learning Outcome: 1, 2, 3, 4, 5, 6

A scientific poster presented to the Department of Animal Biosciences at the end of classes and graded by the Course Coordinator, TA and other faculty.

Poster Presentation 23%

Please see ANSC-4710 Poster Outline for instructions.

Peer evaluation of posters 2%

Submission of 15 peer poster presentation reviews, evaluating content, presentation skills, and poster mechanics & structure.

Student performance (25%)

Graded by the research advisor. As details of specific criteria to be assessed will be discussed with the student at the beginning of the semester; learning objective's related to student performance may vary.

6.3 Final Report Due Date and poster presentation (see deadline list)

The research advisor and student could mutually agree upon the due date for the final report to ensure that the research advisor has enough time to evaluate your assignment and can submit the grade to meet the course deadline.

Date for student poster presentation: see deadline list of the semester which will be posted on courselink

Format : online presentation

Date for student poster presentation: see deadline list

Location : online presentation, detailed instruction will be posted on courselink

7 Course Statements

7.1 Late Policy

If you choose to submit assignments to the **Dropbox** tool late, the full allocated mark will be reduced by 5% per day after the deadline for the submission of the assignment to a limit of six days at which time access to the **Dropbox** folder will be closed. Late Graded Homework Assignments will NOT be graded if they are submitted after the solutions have been posted to CourseLink.

Extensions will be considered for medical reasons or other extenuating circumstances. If you require an extension, discuss this with the instructor as soon as possible and well before the due date. Barring exceptional circumstances, extensions will not be granted once the due date has passed. These rules are not designed to be arbitrary, nor are they inflexible. They are designed to keep you organized, to ensure that all students have the same amount of time to work on assignments, and to help to return marked materials to you in the shortest possible time.

7.2 Grades and Feedback

Unofficial assessment marks will be available in the **Grades** tool of the course website.

Your instructor will attempt to have grades posted online within 2 weeks of the submission deadline, if the assignment was submitted on time. Once your assignments are marked you can view your grades on the course website by selecting **Grades** from the **Tools** dropdown

menu on the navbar. Your course will remain open to you for seven days following the last day of the final exam period.

University of Guelph students can access their final grade by logging into WebAdvisor (using your U of G central ID).

<https://webadvisor.uoguelph.ca>

7.3 Grading Policies and Missed or Late Final Papers

The report deadline is defined by mutual agreement between the research advisor and student. The research advisor and the student can mutually agree to modify the deadline if needed. If the grade is not provided in time to meet the Registrar's Grade deadline (see above), the grade will need to be resolved through the incomplete grade system in the Registrar's Office. Therefore, every effort should be made to complete the course requirements before the final grade deadline.

7.4 Grading Policies and Missed or Late Poster Presentation

The poster presentation is scheduled by the Course Coordinator to coincide with the end of classes or early during the exam schedule at a mutually agreeable time. Students with a valid academic conflict can make other arrangements with the Course Coordinator to present the poster at a different time. If a student misses their scheduled presentation time and has not contacted the Course Coordinator, the University's requirements for documentation of academic consideration come into play (see below).

7.5 Netiquette Expectations

The course website is considered the classroom and the same protections, expectations, guidelines, and regulations used in face-to-face settings apply. Inappropriate behaviour will not be tolerated. Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor or fellow students;
- Using offensive language;
- 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;
- 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; and
- Sharing your username and password.

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>

8.9 Disclaimer

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

The University will not require verification of illness (doctor's notes) for the fall 2020 or winter 2021 semesters.
