Course Outline: ANSC-4710  
Research in Animal Biology II

**General Information**

**Course Title:** ANSC-4710 Research in Animal Biology II

**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, Research in Animal Biology I and can be done in the same semester.

**Credit Weight:** 0.5

**Academic Department (or campus):** Department of Animal Biosciences

**Campus:** Guelph

**Semester Offering:** Fall, Winter, Summer

**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.

**Pre/Co-requisites:** ANSC-4700

**Course Coordinator Information**

Course Coordinator Name: Julang Li  
Course Coordinator Email: jli@uoguelph.ca  
Office Location: ANNU 248  
Office hours: Thursday 2-3:30 pm

**GTA Information**

GTA Name: Sudhanshu Sudan  
GTA Email: ssudan@uoguelph.ca  
GTA office location and office hours: ANNU Room 212, by appointment
Course Content

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. It is possible to enroll in both ANSC-4700 and ANSC-4710 in a single semester. In that situation, you will review the literature, propose a project, conduct the research, and analyze the results.

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.

Specific 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:

- Develop an understanding of the research in a specific field of interest
- Critically assessed the primary literature in the research area
- Further develop written communication skills
- Further develop oral and visual presentation skills
- Obtain research experience and interpret scientific data
- Work independently and take responsibility for their own research

Course Assignments and Tests

<table>
<thead>
<tr>
<th>Component</th>
<th>Information</th>
<th>Weighting in Final Grade</th>
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<tbody>
<tr>
<td>Research Paper</td>
<td>A paper that is graded by the research advisor</td>
<td>50%</td>
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<tr>
<td>Poster Presentation</td>
<td>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</td>
<td>25%</td>
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<tr>
<td>Semester Performance</td>
<td>Graded by the research advisor</td>
<td>25%</td>
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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.

**Poster Presentation- 25%**
Please see ANSC-4710 Poster Outline for instructions.

**Student Performance (accessed by supervisor) - 25%**
The student should discuss the specific criteria for this assessment with the supervisor at the beginning of the semester. This should include but is not limited to: preparation for meetings, interaction with others in the laboratory, organization of time, development of technical competence, research performance, and quality of laboratory notes, data organizing.

**Final Report Due Date and poster presentation:**
The due day for the advisor to submit the grade is usually ~ 1-1.5 weeks after the last day of class. The student and the research advisor should 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 in time.

*Final date to be sent to advisors once details arrive from the Register’s Office.*

**Date for student poster presentation:** see deadline list of the semester
Location: Room ANNU 141, Animal Biosciences building

**Course Policies**

**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.

**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).

**University Policies**

**Academic Consideration:**

The University of Guelph is committed to supporting students in their learning experiences and responding to their individual needs and is aware that a variety of situations or events beyond the student's control may affect academic performance. Support is provided to accommodate academic needs in the face of personal difficulties or unforeseen events in the form of Academic Consideration.

Information on regulations and procedures for Academic Consideration, Appeals and Petitions, including categories, grounds, timelines and appeals can be found in Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar.

**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.

Detailed information regarding the Academic Misconduct policy is available in Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar.

**Accessibility:**
The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Student Accessibility Services (SAS), formerly Centre for Students with Disabilities (CSD), as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 56208 or email sas@uoguelph.ca or visit the Student Accessibility Services website (http://www.uoguelph.ca/csd/).

Course Evaluation Information:

End of semester course and instructor evaluations provide students the opportunity to have their comments and opinions used as an important component in the Faculty Tenure and Promotion process, and as valuable feedback to help instructors enhance the quality of their teaching effectiveness and course delivery.

While many course evaluations are conducted in class others are now conducted online. Please refer to the Course and Instructor Evaluation Website for more information.

Drop period:

Information about Dropping Courses can be found in Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar.

Additional Course Information

N/A.