



# **IBIO\*6010 Special Topics in Physiology**

Winter 2020

Section(s): 01

Department of Integrative Biology

Credit Weight: 0.50

Version 2.00 - November 21, 2019

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## **1 Course Details**

### **1.1 Calendar Description**

This is a course in which several faculty lecture and/or lead discussion groups in tutorials about advances in their broad areas, or related areas, of physiology. Topics may include metabolic adaptation to extreme environments, behavioural and molecular endocrinology, and exercise and muscle physiology, and will depend on who is co-ordinating the course for that particular offering. The course includes lectures and seminars in which the students actively participate.

### **1.2 Course Description**

#### **General course description**

'Special Topics' courses are taught by different faculty each year and the focus will vary from year to year. Each course offering will be identified as a section with its own title. This information will appear on your transcript, and this will allow students to participate in multiple offerings for these courses, since they will be identified as different sections, covering different course materials.

#### **Specific topic for Winter 2020:**

Evaluation of theoretical advances in comparative physiology

**Description of specific topic:**

Based on individual interests, each student will be attributed a historical period for analysis of contemporaneous questions and hypotheses on a general topic within comparative physiology. By comparison with current knowledge, students will assess what allowed theoretical advances on this topic. Additionally, each student will conduct an in-depth analysis of the historical background related to a specific comparative physiology paper published recently.

**1.3 Timetable**

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

**Course schedule: a two-hour time slot once per week Time: TBD**

Week (Date)	Activity
Week 1 (Jan 6-10)	Class introduction, concepts, strategies for effective literature search
Week 2 (Jan 13-17)	Discussion of selected topics
Week 3 (Jan 20-24)	Approval of topics, literature search
Week 4 (Jan 27-31)	Literature search: oral presentation
Week 5 (Feb 3-7)	Literature search: oral presentation
Week 6 Feb (10-14)	Submit oral presentation outlines, guidelines for effective peer review
Week 7 Feb (17-21)	Winter break: No class

Week 8 (Feb 24-28)	Oral presentations
Week 9 (March 2-6)	Oral presentations
Week 10 (March 9-13)	Background analysis of current article
Week 11 (March 16-20)	Background analysis of current article
Week 12 (March 23-27)	Background analysis of current article
Week 13 (March 30- April 3)	Submit final analysis

## 1.4 Final Exam

There is no exam for this course.

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## 2 Instructional Support

### 2.1 Instructional Support Team

**Instructor:** Frederic Laberge  
**Email:** flaberge@uoguelph.ca  
**Telephone:** +1-519-824-4120 x56238  
**Office:** SC1 1465

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## 3 Learning Resources

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## 4 Learning Outcomes

### 4.1 Course Learning Outcomes

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

1. By taking this course, students will:

- Develop the skills needed to search and evaluate historical scientific literature
  - Understand how the history of comparative physiology has influenced current knowledge
  - Demonstrate the ability to organize and present information orally and engage an audience
  - Understand the value and responsibilities of peer review and practice peer reviewing
  - Demonstrate advanced writing proficiency
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## 5 Teaching and Learning Activities

Oral Presentation:

Each student will give a presentation (duration TBD based on course enrolment) on the factors that allowed theoretical advances on a general topic within comparative physiology. This will be done by tracking questions and hypotheses that have been investigated on this topic over time. The instructions for the presentation, criteria for evaluation, and schedule of talks will be posted on the IBIO\*6010 Courselink website. Each presentation will be followed by a discussion period where class peers are expected to actively participate. Students will have the opportunity to get feedback on the structure of their presentation by submitting an outline to the instructor before the Winter break.

Peer review:

Students who are not presenting will complete a peer-review form with the goal of providing advice for improvement of the speakers' oral presentation skills. The quality of peer reviews will be assessed by the instructor according to criteria posted on the Courselink website.

Background analysis of current article:

Each student will produce a written assignment detailing the historical pedigree of a current article. This text will emphasize the strategy and methods used to establish the article's historical background, ideas that were influential to the article's question/hypothesis, and potential connections of current investigators to cited works. A critical evaluation of the quality of the background information presented in the article will complete this assignment. Expected text structure and a grading rubric will be posted on the Courselink website.

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## 6 Assessments

### 6.1 Marking Schemes & Distributions

#### Methods of assessment

Topic	Grade (%)
Oral presentation on a historical period in comparative physiology	40
Peer review of oral presentations	20
Written assignment on historical background of a recent paper	40

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## 7 Department of Integrative Biology Statements

### 7.1 Academic Advisors

If you are concerned about any aspect of your academic program:

- Make an appointment with a program counsellor in your degree program. [B.Sc. Academic Advising](#) or [Program Counsellors](#)

### 7.2 Academic Support

If you are struggling to succeed academically:

- Learning Commons: There are numerous academic resources offered by the Learning Commons including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills. You can also set up individualized appointments with a learning specialist. <http://www.learningcommons.uoguelph.ca/>
- Science Commons: Located in the library, the Science Commons provides support for physics, mathematic/statistics, and chemistry. Details on their hours of operations can be found at: <http://www.lib.uoguelph.ca/get-assistance/studying/chemistry-physics-help> and <http://www.lib.uoguelph.ca/get-assistance/studying/math-stats-help>

### 7.3 Wellness

If you are struggling with personal or health issues:

- Counselling services offers individualized appointments to help students work through personal struggles that may be impacting their academic performance. <https://www.uoguelph.ca/counselling/>
- Student Health Services is located on campus and is available to provide medical attention. <https://www.uoguelph.ca/studenthealthservices/clinic>
- For support related to stress and anxiety, besides Health Services and Counselling Services, Kathy Somers runs training workshops and one-on-one sessions related to stress management and high performance situations. <http://www.selfregulationskills.ca/>

## 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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