

BIOT*6800 - Biotechnology Research Project

Summer 2024 Course Outline

Section: 01

Credits: 1.00

Land Acknowledgement: Guelph

The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit. We recognize the significance of the Dish with One Spoon Covenant to this land and offer respect to our Anishinaabe, Haudenosaunee and Métis neighbours. Today, this gathering place is home to many First Nations, Inuit, and Métis peoples and acknowledging them reminds us of our important connection to this land where we work and learn.

Calendar Description

The students will be matched with a research advisor in their first semester and write a research proposal on their project in the second semester communication course. During the time they do their research project, they will be expected to do the research work that they propose and then to prepare a written report of their results and conclusions as well as to give a poster presentation on this. The research project can be undertaken with any appropriate faculty member, or with an approved off-campus institution.

Restriction(s): Restricted to Master of Biotechnology students.

Department(s): Department of Molecular and Cellular Biology

Course Description

BIOT6800 provides students with an opportunity to conduct a laboratory research project or related research with an industrial supervisor over the summer semester.

Lecture Schedule

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

There is no final exam. The course is assessed based on the final report and a poster presentation.

Instructor Information

Ian Tetlow

Instructor

Email: itetlow@uoguelph.ca

Office: SC1 4471

Office Phone: 519-824-4120 x52735

Resources

The Academic Calendars (<http://www.uoguelph.ca/registrar/calendars/?index>) are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

Course Level Learning Outcomes

The course is centered on experience based learning within an academic or industrial environment. Assessment involves two written reports and a poster presentation. Therefore writing skills and oral presentation skills will be developed in addition to the variety of skills learned in the placement setting.

Teaching and Learning Activities

The whole course is based on a one or two semester lab placement or industrial placement. There are no lectures. At the conclusion of the course students will give a short oral poster presentation and submit a final report.

Approximately halfway through the semester, students will submit a short (2-page) progress report. We plan to conduct an in-person poster session in the SSC Atrium in August, but this will be subject to prevailing COVID19 restrictions in place at the University.

Assessment Breakdown

This course involves doing a project working full time with their assigned advisor. The major assignments will be to prepare two written reports and prepare and present a poster on the project work.

Description	Weighting (%)	Due Date
Report (2-page)	10%	Thursday June 27
Poster Presentation	45%	Tuesday August 6
Project Report	45%	Thursday August 15

Assessment Details

Project

Progress Report

10%

Short 2-page report of progress on the project.

This is essentially a condensed version of the more substantial final report outlined below. However, it should certainly include an executive summary at the beginning, a set of goals and the results as well as a summary of recommended next steps for the project. Please submit your poster to me via Drop Box through Courselink.

Poster Presentation

45%

Please submit your poster to me via my email as a pdf by **Monday August 5th**. This is the week we are planning to run the in-person poster presentation which will be graded by me and one other faculty member. The poster session is planned for Thursday August 8th.

Project

Written Project Report

45%

Please submit the written reports by **Thursday August 15th** via Drop Box on Courselink or to me directly through email. The project report will be a maximum of 10 pages double-spaced not including references or figures. The form of the proposal can be variable depending on the project in question. However, it should certainly include an executive summary at the beginning, how goals were met, if applicable, or perhaps how they changed during the project, an outline of the final results and their implications as well as a summary of recommended next steps for the project. The student is strongly encouraged to consult extensively with their advisor for this. A marking rubric will be posted on Courselink.

Last Day to Drop Course

The final day to drop Summer 2024 courses without academic penalty is the last day of classes: August 02

After this date, a mark will be recorded, whether course work is completed or not (a zero is assigned for missed tests/assignments). This mark will show on the student's transcript and will be calculated into their average.

Department of Molecular and Cellular Biology Statements

Academic Advisors

If you are concerned about any aspect of your academic program. Please make an appointment with a program counsellor in your degree program. B.Sc. Academic Advising (<https://bsc.uoguelph.ca/>) or Program Counsellor (<https://www.uoguelph.ca/uaic/programcounsellors/>)

Academic Support

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: Chemistry / Physics Help (<http://www.lib.uoguelph.ca/getassistance/studying/chemistry-physics-help/>) and Math / Statistics Help (<http://www.lib.uoguelph.ca/getassistance/studying/math-stats-help/>)

Course Offering Information Disclaimer

Please note that course delivery format (face-to-face vs online) is subject to change up to the first-class day depending on requirements placed on the University and its employees by public health bodies, and local, provincial and federal governments. Any changes to course format prior to the first class will be posted on WebAdvisor/Student Planning (<https://www.uoguelph.ca/webadvisor/>) as they become available.

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 username and password
- Recording lectures without the permission of the instructor

Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (<http://www.e-laws.gov.on.ca/index.html.html>) (FIPPA). This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes.

For more information regarding the Collection, Use and Disclosure of Personal Information policies (<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/intro/index.shtml/>) please see the Undergraduate Calendar.

Wellness

If you are struggling with personal or health issues:

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

Standard Statements for Graduate Courses

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 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.

The Academic Misconduct Policy (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/academic-misconduct/>) is outlined in the Graduate Calendar.

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.

Use of the SAS Exam Centre requires students to make a booking at least 10 business days in advance, and no later than the first business day in November, March or July as appropriate for the semester. Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time. For students at the Guelph campus, information can be found on the SAS website. (<https://www.uoguelph.ca/sas/>)

Accommodation of Religious Obligations

If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements.

See the Academic calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/academic-accommodation-religious-obligations/>)

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.

Drop Date

Courses that are one semester long must be dropped by the end of the last day of classes; two-semester courses must be dropped by the last day of classes in the second semester. The regulations and procedures for Dropping Courses (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/registration/>) dropping courses are available in the Graduate Calendar (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/registration/>).

Email Communication

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

Health and Wellbeing

The University of Guelph provides a wide range of health and wellbeing services at the Vaccarino Centre for Student Wellness (<https://wellness.uoguelph.ca/>). If you are concerned about your mental health and not sure where to start, connect with a Student Wellness Navigator (<https://wellness.uoguelph.ca/navigators/>) who can help develop a plan to manage and support your mental health or check out our mental wellbeing resources. (<https://wellness.uoguelph.ca/shine-this-year/>) The Student Wellness team are here to help and welcome the opportunity to connect with you.

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).

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.

Resources

The Academic Calendars (<http://www.uoguelph.ca/registrar/calendars/?index>) are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

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. See the Graduate Calendar for information on regulations and procedures for Academic Consideration (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/grounds-academic-consideration/>).