

BCH374Y1

Research Project in
Biochemistry

Term & Year: Fall-Winter 2023-2024

Timetable: To be determined
individually with each student's
supervisor

Hours: 144P

Prerequisites: For Specialist:
BCH242Y1 (75% or higher);
BIO230H1; CHM247H1/ CHM249H1.

For Major: BCH210H1 (80% or
higher); BIO230H1; CHM247H1/
CHM249H1.

Exclusions: None

Enrolment Limits: 35

Coordinator:

Hue Sun Chan

huesun.chan@utoronto.ca

COURSE SYLLABUS

Last updated: 19 June 2023



Course Overview & Learning Outcomes

BCH374 spans the Fall and Winter terms, and provides real-world individual research opportunities in biochemistry, under the direct supervision of a Department of Biochemistry or Molecular Genetics faculty member. Each student, aided and advised by their supervisor, will read relevant literature and plan, execute, analyse, and report on experimental investigations on an appropriate topic. The project must be original experimental or computational work. BCH374 takes advantage of the resources and expertise of the over 100 faculty researchers within the departments. It gives students an appreciation of the scientific method that comes from intensive experimentation. It enhances students' understanding of theoretical concepts learned in other courses through a better understanding of the experimental approaches upon which those theories are based, and provides one-on-one contact with faculty members.

Course Materials

Readings as provided/suggested by individual supervisors. Resources applicable to all students in the course will be shared by e-mail and/or via Quercus.

Course Evaluation

There are three components to the final grade for BCH374Y1:

- Thirty percent of the final grade is contributed by the student's research project supervisor, based on the student's performance in the lab. The supervisor will evaluate the student's progress at the end of the Fall term (15%) and at the end of the Winter term (15%).
- Thirty percent of the final grade is contributed by the course coordinator and faculty members who are not the student's supervisor. This portion includes a 3 page research project proposal (5%), a 5-page midyear report (15%), and a midyear progress presentation (10%).
- Forty percent of the final grade is contributed by the student's exam committee, who will evaluate the final research report (20%) and the oral exam (20%). The presentation and the student's handling of questions during the oral examination will be weighted equally (10% each).

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e.g. classroom or lab room locations, office hours, etc.

Course Instructor(s)

Name	E-Mail	Teaching Hours
Potential BCH supervisors are listed at:	http://biochemistry.utoronto.ca/people/faculty-list/	#L/#T/#P
Potential MGY supervisors are listed at:	https://moleculargenetics.utoronto.ca/faculty-directory	#L/#T/#P
Enter name	Enter email	#L/#T/#P
Enter name	Enter email	#L/#T/#P

Important Dates

Date—Item
Research Project Proposal: September 29th, 5 pm
Midyear Progress Report: December 7th, 5 pm
Midyear Progress Presentation: To be scheduled during the Fall evaluation period, December 9th - 20th 2023
Final Research Report: April 5th 2024, 5 pm
Final Presentation and Oral Exam: To be scheduled during the Winter evaluation period, April 10th - 30th 2024

Academic Accommodations

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability or health consideration that may require accommodations, please feel free to approach the Course Coordinator and/or the Accessibility Services Office (<http://www.accessibility.utoronto.ca>) as soon as possible. The Accessibility Services staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. The sooner you let us know your needs, the quicker we can assist you in achieving your learning goals in this course.

Communications

Course coordinator will utilize mainly e-mail (UTORONTO e-mail addresses) and also the course's Quercus to communicate with students. As a matter of professionalism, students are expected to use their UTORONTO e-mail addresses as well. Regular communications between students and their research project supervisors are expected to follow the usual arrangements in their individual laboratories.

Course Policies

Penalty for Late Submission of Coursework:

Late Assignments will be subject to a penalty of 10% per day.

Marking Policies:

All requests for remarking of coursework must be made directly to the Course Coordinator within two weeks of the return of the marked work.

Missed Term Tests and/or Requests for Coursework Extensions:

Students who are absent from academic participation for any reason (e.g., COVID, cold, flu and other illness or injury, family situation) and who require consideration for missed academic work should report their absence through the online absence declaration. The declaration is available on ACORN under the Profile and Settings menu. Students should also promptly advise the Course Coordinator of the absence.

Academic Integrity

THERE IS ZERO TOLERANCE FOR PLAGIARISM. Please refer to the Arts and Science Calendar for a definition of plagiarism. Please take advantage of the writing services available on campus or speak to your instructor if you need assistance.

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Course Schedule

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