



HMB396Y – International Research Project in Human Biology

Description:

Your individual, independent research project is supervised by a faculty member at either Shandong University (China) or National Chaio-Tung University (Taiwan). This unique opportunity to conduct a lab-based research project is open to students in any Human Biology program. In each laboratory, students will have the opportunity to learn the techniques required for the specific research project. Researchers are currently working in the areas of cellular and molecular biology, signal transduction, neuroscience, microbiology and infectious diseases, cancer research, immunology, bioinformatics, system biology, computational biology, nano-biotechnology, nano-medicine and drug delivery, cellular imaging, bio-electronics and bio-fuel.

Prerequisites:

At least 8.5 FCEs including relevant courses in human biology.

Readings:

There are no required textbooks for this course. Readings will consist of journal articles and other documents related to the research project.

Course Assessment	Weight of Assessment
Weekly Journal Club. Students will be taught how to research scientific articles on the web, and how to prepare and give a scientific presentation in class. Students will receive feedback about their presentations. Each student will do one presentation throughout the program.	35% of total mark
Lab Performance <ul style="list-style-type: none"> • Bench work/Interview skills • Organization/Productivity/Teamwork • Data analysis/Industriousness 	15% of total mark
Final Report (see attached rubric. Submitted to UofT and Turnitin.com and graded by UofT Faculty) Research paper due date: August 23	50% of total mark



HMB396Y Final Report Rubric

Student:		Course	
Supervisor:		Date	
Content			Grade out of 20
Introduction/Literature review – Thorough summary of background information to justify current project. Synthesis and evaluation of ideas rather than simply rehash. Most Relevant info, start general, funnel to specific, overall completeness (including all topics/points needed to understand project. Ends with clear research statements, justification and significance (why important to do project)			
Materials and Methods - enough to replicate, appropriate citations if necessary, clear understanding of techniques and technical language			
Results - written description with well-constructed/ appropriate figures/tables; labeled completely and correctly; appropriate analysis completed (eg. stats, controls)			
Discussion - major results interpreted, confounds/limitations; significance, future directions			
Style - Complete/Concise/Accurate - includes all relevant sections, logical flow and smooth transitions, sentence structure, grammar, spelling, verb tense, punctuation, 12-15 pages double spaced and Citations - Most relevant 20-30 references for work, with majority being primary papers. Properly used within paper, consistently formatted properly throughout.			
Overall Grade (out of 100)			

All assignments must be submitted electronically to turnitin.com and blackboard by the due date and time. Late penalties apply: 5% per day for written assignments (up to 1 week after due date, after which assignments will not be accepted)



MISSED ASSESSMENT POLICY

This course follows the University of Toronto's Policies on missed tests and assignments and follows the Human Biology Program's procedures for missed tests and assignments. **Students are expected to follow these policies and procedure as they will be strictly enforced.** Please note that this policy applies to everything due in this course, except in person final examinations (for those, please petition).

Steps for missed assessments:

1. Fill out the [HMB Missed Assessment Form](#) within 5 business days of the missed assessment:
 - A copy of this form and its details will be emailed to you and to your instructor; this is how you notify your course instructor.
2. Document your absence in one of the following ways, notes may be dropped off (WE105) or [emailed](#) to the HMB Office:
 - [Self-declare your absence on ACORN](#)
 - **NEW for Fall 2023:** You can only do this one per term, so make sure you read all the rules linked above.
 - If sick and seeing a doctor, a medical note: [U of T Verification of Illness or Injury Form \(VOI\)](#)
 - College Registrar's letter ([find your Registrar's office or contact information](#))
 - Letter of Academic Accommodation from Accessibility Services
 - The HMB program office will ONLY contact you if there is an issue
3. Check your course syllabus for next steps.
 - If late assignments are accepted, the ***assignment is still due in one week (5 business days)***. DO NOT wait for an email confirmation from the program office to submit the course work. Emails will only be sent if there is an issue.

Please note that the HMB Missed Assessment Form must be submitted within five (5) business dates of the missed test/quiz date or assignment deadline.

EXTENSION REQUESTS & PENALTY FOR LATE ASSIGNMENTS

Contact the Instructor by email to request the extension at least **ONE WEEK** prior to the due date. Extensions will not be granted if this step is not followed. Complete Steps 1 listed above.

NOTE: In any case, the ASSIGNMENT IS STILL DUE with a maximum extension of ONE WEEK if the above is followed and the reason validated. Do NOT wait for confirmation from the program office to submit, because confirmation will not come. An extension beyond the initial extension is **only possible under exceptional circumstances supported by valid documentation.**

- **Late penalties on all written assignments: *10% per day** for all assignments (up to 5 days after due date, after which assignments will not be accepted)



STATEMENT ON ACADEMIC INTEGRITY

The University of Toronto treats cases of academic misconduct very seriously. Academic integrity is a fundamental value of learning and scholarship at the UofT. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that your UofT degree is valued and respected as a true signifier of your individual academic achievement.

The University of Toronto's Code of Behaviour on Academic Matters outlines the behaviours that constitute academic misconduct, the processes for addressing academic offences, and the penalties that may be imposed. You are expected to be familiar with the contents of this document. Potential offences include, but are not limited to:

In written assignments and final presentation:

- Using someone else's ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment (this includes working in groups on assignments that are supposed to be individual work).

Any instance of suspected academic dishonesty will be reported to the Office of Student Academic Integrity. For further information on you may wish to visit <http://www.artsci.utoronto.ca/osai/resources> and <http://www.writing.utoronto.ca/advice>.

Ouriginal – Plagiarism Software

This course uses Ouriginal. All written assignments will automatically be submitted to Ouriginal via Quercus when your assignment is uploaded. Normally, students will be required to submit their course essays to University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).



ACCESSIBILITY ACCOMODATIONS

“Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or Accessibility Services at (416) 978 8060; accessibility.utoronto.ca (Academic Handbook, 2.19)”

HEALTH & WELLNESS

The university experience can be a challenging one, there is no need to go about it alone. If you or anyone you know could use someone to talk to (or text with), here are some resources in addition to your instructors, program coordinators, and TAs:

- Your **college registrar** and **Office of the Deans of Students/Division of Student Life**
- **U OF T TELUS HEALTH STUDENT SUPPORT** 1-844-451-9700 (NORTH AMERICA); 001-416-380-6575 (OUTSIDE OF NORTH AMERICA)
- **Good 2 Talk Student Helpline** [24/7]: 1-866-925-5454
- **Gerstein Centre** [24/7]: 416-929-5200

ACADEMIC SUPPORT

- Writing Centre for all writing-related help (<https://writing.utoronto.ca/writing-centres/arts-and-science/>)
- Study Hubs for weekly goal-oriented study sessions (<https://studentlife.utoronto.ca/program/study-hubs/>)
- Recognized Study Groups to connect with fellow students in the same class (<https://sidneysmithcommons.artsci.utoronto.ca/recognized-study-groups/>)
- Learning Strategist for one-on-one help to improve learning strategies (<https://studentlife.utoronto.ca/service/learning-strategist-connections/>)