



HMB396Y – International Research Project in Human Biology

Description:

Your individual, independent research project is supervised by a faculty member at either Shandong University (Shandong) 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 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: Shandong program: September 3, 2021 Taiwan program: August 27, 2021	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 Assignment/Test Policy

This course follows the Human Biology Program's and the University of Toronto's Policies on missed tests and assignments:

1. Students who fail to submit assignments or sit term tests for medical reasons must submit a valid UofT Verification of Student Illness or Injury Form. Note that it must be signed by a physician and the report must establish that the patient was examined and diagnosed at the time of illness, not after the fact. For non-medical causes, please refer to the complete HMB Policy on the website.



2. Within five business days of the missed test or assignment due date, the original copy of completed the UofT Verification of Student Illness or Injury Form must be submitted to the Human Biology Program Offices in Wetmore Hall.
3. The HMB Program office verifies all medical notes. If the note is valid, the instructor will be informed. The student will not be contacted if the missed item was an assignment/tutorial quiz. The office will only contact the student if the missed item was a term test.
4. If the note was submitted for an assignment, the ***assignment is still due with a maximum of 1 week extension*** if the note and reason is verified. In this case, the late penalty will be waived.

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 papers and assignments:

- 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>.

TURNITIN

This course uses Turnitin. All written assignments will be required to be submitted to turnitin.com first, and then a blackboard submitted copy must include the Turnitin ID on the assignment's front page. Students "submit their course essays to Turnitin.com 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 Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site (Academic Handbook, section 2.15)." Information on how to access the Turnitin page for this course will be available on Blackboard after the course starts.