

'396' Undergraduate Research Project Application Form

Version: 200603

Office for Undergraduate Research in Science
Tel.: 514-398-5964 / Fax: 514-398-8102 / Dawson Hall, Room 211
Email: victor.chisholm@mcgill.ca Web: www.mcgill.ca/science/ours/

INSTRUCTIONS FOR STUDENTS

- **All fields are required, unless indicated otherwise.**
- Download and print this form. Complete Section C and sign.
- See "How students can apply" instructions in Section B.
- Your supervisor or department will tell you if you are selected for this project. If so, you will receive a code to register for a '396' course on MINERVA.

SECTION A: SUPERVISOR INFORMATION

Name: Jay Nadeau **Email:** Jay.nadeau@mcgill.ca
Phone: 514-398-8372 **Website:** _____
Supervisor's Department or Unit: Biomedical Engineering **Course Number:** MIMM 396

SECTION B: PROJECT INFORMATION

Term: Summer 2008 **Project start & end dates:** May 1 – September 3, 2008
Project title: International genetically engineered machine
Project description: Creation of unique coupled gene networks in E.Coli using the Elowitz repressilator as a base model. Tranfection and imaging of cells using fluorescence and confocal microscopy, gene cloning and analysis of expression levels. Mathematical analysis of genetic networks.
Prerequisites: MIMM-212 or equivalent laboratory course, 1 term completed as McGill with CGPA ≥ 3.0; or permission of instructor.
Grading scheme: Final grades shall be based on laboratory performance as evaluated by the research supervisor (50%) and the final written research report (minimum 10 pages) graded by the supervisor and the course coordinator or the coordinators delegate (50%).
Other: _____
Status: Mark with an x. This project is...
[] Open to applicants
[x] Already taken; no more positions available this term
[] Taken, but contact me for other possible projects this term
Ethics, safety, and training: Which of the following, if any, is involved? Mark with an x.
[] Animal subjects
[] Human subjects
[x] Biohazardous substances
[] Radioactive materials
[x] Handling chemicals
[] Using lasers
For undergraduate students, ethics and safety compliance is the supervisor's responsibility.
How students can apply: After all parts of the application form are completed and signed by the Professor and the student, bring this application form and your advising transcript to Prof. M. Baines during office hours who will sign as the MIMM396 course coordinator.

SECTION C: STUDENT INFORMATION. (1) PRINT LEGIBLY AND SIGN. (2) SEE "HOW STUDENTS CAN APPLY" IN SECTION B.

Name: _____ **McGill ID:** _____
Email: _____@mail.mcgill.ca **Phone:** _____
Program: _____ (e.g., B.Sc. Maj. Chem. Minor Biology) **Level:** (circle one) U0 / U1 / U2 / U3
I have not applied for another 396 course in this term.
Student signature: _____ **Date:** _____

SECTION D: APPROVALS. (1) PRINT NAMES & SIGN. (2) NOTIFY OFFICE FOR UNDERGRADUATE RESEARCH IN SCIENCE. (3) GIVE STUDENT CODE TO REGISTER FOR COURSE ON MINERVA.

Supervisor: _____ **Date:** _____
Unit Chair, Director, or designate - I certify that this project conforms to departmental requirements for 396 courses. _____ **Date:** _____