

MATH*4600: Advanced Research Project in Mathematics

Course Outline

General Information

Course Title

Advanced Research Project in Mathematics

Course Description

Each student in this course will undertake an individual research project in some area of mathematics, under the supervision of a faculty member. A written report and a public presentation of the project will be required.

Credit Weight

1.00 credits

Department

Mathematics and Statistics

Campus

University of Guelph

Semester Offering

Winter 2018

Prerequisites

Approval of a supervisor and the course coordinator.

Coordinator Information

Coordinator

Andrew Skelton

Coordinator E-mail

skeltona@uoguelph.ca

Course Assessment

10% - Preliminary Presentation (10 minutes; scheduled week of February 5-9)

The preliminary presentation is expected to provide us with a background of your topic and to outline your goals and objectives for the project.

20% - Final Presentation (20 minutes; scheduled during final examination period)

For the final presentation, it is expected that the presentation be aimed at an educated, but non-specialist audience. It is expected that the presentation will teach the background related to your topic and then clearly explain your contributions to the project. Students will be evaluated on the following criteria.

- Understanding of material (as reflected by slides and presentation)
- Ability to answer questions
- Clarity (logic, mathematical and graphical content)
- Organization and length

70% - Written Report (15-20 pages, single-spaced, due by Friday, April 20th, although an earlier due date can be negotiated with your supervisor if convenient to your exam schedule)

For the written report, students will be evaluated on the following criteria.

- Clearly explain and motivate the problem/topic
- Background and bibliography
- Clearly motivate study/solution technique
- Originality and/or quality of mathematical and/or algorithmic content
- Clarity and correctness
- A clear demonstration of your contributions to the project

Both the supervisor and the course coordinator grade each student. The student's final grade is obtained by weighting the supervisor's grade by 75% and the coordinator's grade by 25%.

University Policies

Academic Accommodation of Religious Obligations

If you are unable to complete a course requirement due to religious obligations, please let the instructor know within the first two weeks of class. See the academic calendar for more information:

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml>

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, student ID#, and e-mail contact. See the academic calendar for information on regulations and procedures:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Academic Misconduct

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 is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible. Contact CSD at 519-824-4120 ext. 56208 or email csd@uoguelph.ca.

Drop Date

The last date to drop this course, without academic penalty, is Friday, March 9. For regulations and procedures for Dropping Courses, see the Academic Calendar.