

PMATH 467- Winter 2019- Course outline

General information

- Time and location: MWF 1:30PM - 2:20PM , PHY 313.
- Office hours: Tuesday 3pm-4pm, Friday.
- Instructor's contact information: aaleysin@uwaterloo.ca , MC6457.

Marking scheme

- 30% Assignments,
- 30% Midterm exam (Feb. 27, to be held in class),
- 40% Final exam.

Graduate students will be asked to present a topic related to the course material in an informal talk towards the end of the term. Giving a presentation is optional for undergraduate enrollees.

Tentative list topics

- Point-set topology,
- Fundamental groups, covering spaces,
- Simplicial complexes, introduction to homology,
- Classification of surfaces.

Textbook

The main reference will be *Introduction to topological manifolds* by J. Lee. You might find consulting the following books useful as well: *Topology* by Munkres and *Algebraic Topology* by Hatcher, available at the author's web-page <https://pi.math.cornell.edu/~hatcher/AT/AT.pdf>.

Academic offences

Academic offences Academic Integrity:

In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. Please see <http://www.uwaterloo.ca/academicintegrity/> for more information.

Grievance:

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70 - Student Petitions and Grievances, Section 4, <http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm> . When in doubt please be certain to contact the departments administrative assistant who will provide further assistance. Discipline: A student is expected to know what constitutes academic integrity, to avoid committing academic offences, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about rules for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. For information on categories of offenses and types of penalties, students should refer to Policy 71, Student Discipline, <http://www.adm.uwaterlooca/infosec/Policies/policy71.htm> . For typical penalties check Guidelines for the Assessment of Penalties, <http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm>

Avoiding Academic Offences:

Most students are unaware of the line between acceptable and unacceptable academic behaviour, especially when discussing assignments with classmates and using the work of other students. For information on commonly misunderstood academic offences and how to avoid them, students should refer to the Faculty of Mathematics Cheating and Student Academic Discipline Policy, http://www.math.uwaterloo.ca/navigation/Current/cheating_policy.shtml

Appeals:

A student may appeal the finding and/or penalty in a decision made under Policy 70 - Student Petitions and Grievances (other than regarding a petition) or Policy 71 - Student Discipline if a ground for an appeal can be established. Read Policy 72 - Student Appeals, <http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm>

Note for students with disabilities:

The AccessAbility Services (AS) Office, located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the AS Office at the beginning of each academic term.