

The University of Western Ontario  
Department of Mathematics

**Mathematics 4121A/9021A**

**TOPOLOGY**

Fall 2016

**Lectures:**

Tue, 1:30–3:30pm; MC 108

Thu, 1:30–2:30pm; MC 108

**Instructor:** Janusz Adamus

**Office:** MC 122

**E-mail:** jadamus@uwo.ca

**Office Hours:** Wednesdays, 2:30–4:30pm, and Thursdays, 2:30–3:30pm

**Course Website:** <http://www-home.math.uwo.ca/~jadamus/16-17/4121F2016/>

**Textbook:** *Topology. A first course*, J.R. Munkres, ed. Prentice-Hall, 2nd Edition (recommended).

**Prerequisites:** Mathematics 3122A/B.

**Antirequisites:** The former Mathematics 3132B

**Senate Policy on Prerequisites:** Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

**Course Outline:** Topological spaces, operations on subsets, neighbourhoods, bases, subspaces, quotient spaces, product spaces, connectedness, compactness, countability and separation axioms, function spaces.

**Evaluation:** For undergraduate students, the course mark will be based on 10 weekly quizzes (10 min. each), 2 term tests, and the final exam, with the following weights:

- Best 8 out of 10 quizzes: 24%
- Term tests: 36%
- Final exam: 40%.

For graduate students, the final mark will be the weighted average of the above components and the in-class presentation of a selected topic, with weights of 95% and 5% respectively.

**Examination Dates:** The dates of the in-class term tests are **Thursday, Oct.13**, and **Thursday, Nov.10**. The final exam will be scheduled by the Registrar.

**Problem Sets:** The problem sets will be assigned weekly. *These will not be submitted for marking.* However, they are essential to the understanding of the material and preparation for the quizzes and tests.

**Quizzes:** The quizzes will be based on the material of the recently assigned problem sets.

**Statement on Academic Offenses:** Scholastic offenses are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offense, at the following website:

[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf)

**Medical Excuse Regulations:** Students who are unable to meet a course requirement worth 10% or more of the course grade, due to illness or other serious circumstances, must provide valid medical or other supporting documentation to their home faculty Dean's Office as soon as possible and contact their instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office as soon as possible.

The Policy on Accommodation for Medical Illness is available at

[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_medical.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf)

A student requiring academic accommodation due to illness should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found here:

[http://studentservices.uwo.ca/secure/medical\\_document.pdf](http://studentservices.uwo.ca/secure/medical_document.pdf)

**Mental Health Statement:** Students who are in emotional/mental distress should refer to Mental Health@Western [http://www.health.uwo.ca/mental\\_health/](http://www.health.uwo.ca/mental_health/) for a complete list of options about how to obtain help.

**Accessibility Statement:** Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 for any specific questions regarding an accommodation.