

*Welcome to*  
**MATH 5111 - Winter 2013**  
*Topology*

**INSTRUCTOR:** Dr. Razvan Anisca

- **Contact info:** RB 2049 ★ 343-8681 ★ *ranisca@lakeheadu.ca*
- **Office hours:** T 11:30-12:30, F 9:30-10:30

**COURSE INFORMATION:**

- **Class time:** MW 1:15-2:30
- **Textbook:** *A taste of topology* by Volker Runde, publisher Springer.
- **Grading** Your grade will be determined by assignments, a presentation, midterm, and a final exam. The weights of each of these are as follows:

Homework	Presentation	Midterm	"Take home"	Final Exam
20%	10%	30%		40 %
		TBA		

**SYLLABUS** Topological spaces; neighbourhoods, bases, and sub-bases; product spaces and weak topologies; nets and filters; convergence; separation axioms, including Urysohn's lemma and Tietze's extension theorem; compact and locally compact spaces, including Tychonoff's theorem and compactifications; metrizability; and connectedness.

**COURSE POLICIES** LATE assignments will NOT be accepted. If you miss an exam with a university approved excuse, the weight of that exam will be *transferred* to the *next exam*. There will be no make-up exams!