

Instructor	Amites Sarkar
Text	Introduction to Metric and Topological Spaces (2 nd ed.) Wilson A. Sutherland

Syllabus

We'll cover Chapters 1–9, 13 and 14 of the book, and, if there's time, Chapter 17.

Course Structure

After the first week, there will be lectures on Tuesdays and Fridays, and student presentations on Mondays and Thursdays. Your presentations will be graded, and the scores will count towards your final grade, as indicated below.

Course Objectives

The successful student will demonstrate competence in proving basic theorems involving metric spaces, properties of functions on metric spaces, compactness and continuity.

Relation to overall program goals

Among other things, this course will (i) enhance your problem-solving skills; (ii) help you recognize that a problem can have different useful representations (graphical, numerical, or symbolic); (iii) increase your appreciation of the role of mathematics in the sciences and the real world.

Final

Thursday 11 December 8–10 am. This will be a closed book exam.

Grading

I will base the grade on **homework** (there will be 3 homework assignments, each worth 10%), **presentations** (20%), **participation** (20%), and the **final** (30%).

Office hours

My office hours are 12–12:50 on Mondays, Tuesdays, Thursdays and Fridays, in 216 Bond Hall. My phone number is 650 7569 and my e-mail is amites.sarkar@wwu.edu