

MAA 6416: Topology, COS-MATH 3(3,0)

Fall 2017

Lectures: Tuesday–Thursday, 2–3:20 p.m., MSB 407

Instructor Information.

- **Name:** Başak Gürel
- **Email:** basak.gurel@ucf.edu. *Please use the subject line TOP in your email.*
- **Office:** MSB 104
- **Office hours:**
Tue–Thu 12:30–2 p.m., 5:30–6:15 p.m. and Wed 8–8:30 a.m.

Course prerequisite. MAA 4226: Advanced Calculus I, MTG 4302: Introduction to Topology

Textbooks. *Topology and Geometry* by Glen Bredon and *Algebraic Topology* by Allan Hatcher, (freely available on Hatcher’s website).

Course goals. The course will provide an introduction to the ideas and methods of topology and algebraic topology.

Course description. This is an introductory graduate course in topology with a goal of introducing you to algebraic topology. As such, I will essentially assume that you are quite comfortable with the material from an undergraduate topology course.

The topics we will discuss include a review of point set topology (topological spaces, continuity, convergence, subspaces, product spaces, quotient spaces, connectedness, compactness), fundamental group, homology and possibly more.

I will try to follow Bredon (Chapters 1, 3, 4) or/and Hatcher (Chapters 1, 2) and assign homework from these books.

Course work. There will be homework sets, one take-home midterm and a take-home final exam.

Homework. You may turn in your homework either in class to me or by email as a single pdf file. *Other formats such as jpeg will not be accepted.*

Grading policy. Your course grade will be based on homework, midterm and final exam scores as follows: Homework 30%, Midterm 30%, Final 40%. I will use the grading scale

100 – 90%: A, 89 – 80%: B, 79 – 70%: C, 69 – 60%: D, < 60%: F.

Internet access. You are expected to have daily access to the internet and email. I will be emailing you regularly, usually through Webcourses, about course related matters and assume that you are following those communications.

Important dates. Here are some important dates.

Aug 22, Tue	MAA 6416 first lecture
Aug 24, Thu	Drop/Swap Deadline
Aug 25, Fri	Add Deadline
Aug 31, Thu	No class due to Game Day
Oct 30, Mon	Withdrawal Deadline
Nov 23–25, Thu–Sat	Thanksgiving break
Nov 30, Thu	MAA 6416 last lecture

Financial Aid Requirement. All faculty are required to document students academic activity at the beginning of each course. This academic activity must be completed by the end of the first week of classes or as soon as possible after adding the course, but no later than Aug 25. In order to document that you began this course, please complete the registration validation quiz given through UCF Webcourses by 5 p.m., Monday, Aug 25. Failure to do so may result in a delay in the disbursement of your financial aid.

Disability access statement. The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students who need accommodations must be registered with Student Accessibility Services (SAS), Ferrel Commons Room 185, Phone: 407-823-2371, Email: sas@ucf.edu, before requesting accommodations from the professor.

Disclaimer statement. This document is furnished for student information only. It is subject to change without previous announcement.