

Math 6342 (Fall 2018): Course Syllabus

Professor William Ott

Office hour: Tuesday, 10:30

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Overview. This course will prepare you for the PhD qualifying examination in topology. We will cover general topology and then move to topics in algebraic topology, including the fundamental group, covering spaces, and homology theories. Topology is intrinsically beautiful, shares deep connections with analysis, and has emerged as a powerful tool in the applied sphere.

Literature.

- (1) Required textbook
 - (a) *Topology (Second Edition)* by James Munkres
- (2) Additional resources
 - (a) *Topology and Geometry* by Glen Bredon

Assignments. You will be given 2–3 problem sets every 3 weeks. Several randomly selected problems from each set will be graded. No late submissions will be accepted. Your lowest problem set score will be dropped when your course grade is computed.

Grading. Your course grade will be based on assignments and exams. The distribution is as follows.

Assignments	30%
Exams 1–2	20% each
Final exam	30%

Digital interfacing.

- (1) Course material such as assignments, reading information, exam material, solutions, and announcements will be available here:
<http://www.math.uh.edu/~ott/>
- (2) Scores on assignments and exams will be accessible via the Blackboard system.

UH CAPS statement. Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let’s Talk” program, a drop-in consultation service at convenient locations and hours around campus (http://www.uh.edu/caps/outreach/lets_talk.html).