Title of Course: Algebraic Topology MATH 6400
https://myui.uiowa.edu/my-ui/courses/details.page?ci=149709&id=993377

Course meeting time and place: 11:30A - 12:20P MWF 218 MLH

Department of Mathematics: https://math.uiowa.edu

Course ICON site: To access the course site, log into Iowa Courses Online (ICON) https://icon.uiowa.edu/index.shtml using your Hawk ID and password.

Course Home

For Graduate Courses: The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the policies and procedures for its courses. Graduate students, however, must adhere to the academic deadlines set by the Graduate College.

Instructor: Mohammad F. Tehrani
Office location: B1E MLH
Student drop-in hours: M/W 10:00-11:00 AM and Th 1:00-2:00 PM

Students are invited to drop by during these hours to discuss questions about the course material or concerns. I am also available by appointment if you are unable to attend my drop-in hours or I am unavailable due to some unpredicted event

E-mail: mohammad-tehrani@uiowa.edu
DEO: Professor Ryan D. Kinser, 14A MLH (ryan-kinser@uiowa.edu)

Description of Course
The Course will cover standard topics in Algebraic Topology including Homology/Cohomology, Homotopy, Poincare Duality, and more.

Learning Objectives
You should get comfortable with the concepts of homology/cohomology and learn how to calculate basic examples. The topics taught in this course are foundational for all areas of modern geometry/topology and appear in other areas of math as well.

Textbook/Materials
The suggested textbook(s) for this course are:

- **Title**: Algebraic Topology
- **ISBN**: 978-0521795401
- **Author**: A. Hatcher
- **Publisher**: Cambridge University Press; 1st edition (December 3, 2001)

We will mainly follow sections 2-4 of Hatcher (my lecture notes from last year are available on my homepage and will be updated)

**Grading System and the Use of +/-**
I will use the plus/minus for grades. Cutoffs for letter grades, based on the overall sum of the individual grades (HW, Mid, Final) explained below, are tentatively as follows

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>90+</td>
</tr>
<tr>
<td>B</td>
<td>75-89</td>
</tr>
<tr>
<td>C</td>
<td>60-74</td>
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<tr>
<td>D</td>
<td>50-59</td>
</tr>
<tr>
<td>F</td>
<td>0-49</td>
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</tbody>
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You should not view this as a fixed predetermined grade scale, but rather as a guaranteed *minimum scale* (e.g. the cutoff line for A- may end up being 86 instead of 90 but it will not be increased).

**Course Grades**
Final course grades will be assessed based on your performance in the following activities:

1. Homework 30% (bi-weekly, solutions must be typed),
2. One midterm 30% (time/date will be put to vote)
3. Final 40% (take home)

**Academic Honesty and Misconduct**
All students in CLAS courses are expected to abide by the CLAS Code of Academic Honesty.
Undergraduate academic misconduct must be reported by instructors to CLAS according to these procedures. Graduate academic misconduct must be reported to the Graduate College according to Section F of the Graduate College Manual.

You are encouraged to collaborate with other classmates on homework assignments but you are required to present your own conclusions/writing.
Student Complaints
Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact CLAS Undergraduate Programs for support when the matter is not resolved at the previous level. Graduate students should contact the CLAS Associate Dean for Graduate Education and Outreach and Engagement when additional support is needed.

Drop Deadline for this Course
You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the drop deadline for this course here. When you drop a course, a “W” will appear on your transcript. The mark of “W” is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the Registrar’s website. Undergraduate students can find policies on dropping and withdrawing here. Graduate students should adhere to the academic deadlines and policies set by the Graduate College.

Calendar of Course Assignments and Exams
Homework assignments will be uploaded to ICON as a PDF file.

College of Liberal Arts and Sciences (CLAS) Course Policies
Attendance and Absences
You are required to attend the class regularly.

Exam Policies
Communication: UI Email
Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

Where to Get Help
You are encouraged to talk to me, DGS, or your mentor if you need help with anything.

University Policies
Accommodations for Students with Disabilities
Basic Needs and Support for Students
Classroom Expectations
Exam Make-up Owing to Absence
Free Speech and Expression
Mental Health
Military Service Obligations
Non-discrimination
Religious Holy Days
Sexual Harassment/Misconduct and Supportive Measures
Sharing of Class Recordings