Math 4343 - Introduction to Topology - 26305/28762   Instructor: Dr. Neil Hoffman
MWF 1:30-2:20, MSCS 509   email: neil.r.hoffman@okstate.edu
Office Location MSCS 523   Office Hours: TBA
Website: `http://math.okstate.edu/people/nhoffman/`

Prerequisites: MATH 3613 - Introduction to Modern Algebra

Textbook: Introduction to Topology: Pure and Applied by Adams and Franzosa

Format: This course is 2/3 lecture 1/3 student presentation. Starting in Week 2, Wednesdays will be dedicated to students working through the material. This format also affects the Homework policy (see below.) Attendance will be taken on Wednesdays and more than one unexcused absence on Wednesday's will affect your grade.

Course Information Topology is one of the core areas of abstract mathematics. Throughout this course in point-set topology (the main focus) we will explore properties of the (standard) real numbers, however, we will also explore the full freedoms of the definitions and concepts in this course. Part of the joy and fun of topology is to both see standard notions of well-known objects in this more general context and to build pathological counter-examples to seemingly obvious conjectures. The course will end with applications of these foundational ideas to other fields of mathematics.

Missing Work Policy: Your instructor will make reasonable accommodations in the event that you miss a major assessment for a valid and documented reason, assuming documentation is provided in advance unless absolutely impossible. For an exam, you need to notify your instructor as soon as you know there is a conflict; you will be ineligible for a make-up if you do not.

Syllabus Attachment: Please access and read the OSU syllabus attachment on the web page: `http://academicaffairs.okstate.edu/content/resources-faculty-staff`. Follow the link under Syllabus Attachment for Fall 2016. This document contains important information, including instructions about disability accommodations. Please contact your instructor privately during the first week of the course if you need accommodations as the result of a disability. Any changes to this syllabus will be announced in class and posted on D2L.

Grades: The grading for the course is as follows: Homework 15%, Presentations 10%, Final presentation 5%, Exam I 20%, Exam II 20%, Final 30%.

Homework: Homework in this class will support the student presentations on Wednesdays. An initial draft of the assignment will be due (electronically) 11:59am on Wednesdays. It is expected that the initial draft addresses each of the problems and will serve as the basis for presentations on Wednesdays. Final drafts of the assignments will be due the following Monday. Starting in Week 4, homework should be submitted as a LaTex file. (The homework will be distributed as a LaTex file and a pdf.)

Presentations and final presentation: Each week Wednesdays will be reserved for student presentations. You are expected to be prepared for the material and will have written it by noon that day. Your grade in this section will be reflected not only in how you present, but also in how well you ask questions and participate while others are presenting. The final presentation will be a group project introducing material from a later chapter. More information will be provided on that after spring break.

Exams: There will be two one-hour exams in class and a comprehensive Final Exam (inform me of conflicts early). Exam 1: Friday March 3, Exam 2: Friday April 21, Final Exam: Wednesday, May 10, 2:00-3:50pm

Academic Integrity & Drops: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct. Please see the OSU Spring 2016 Syllabus Attachment for more information. You are encouraged to work and study together, however **all written you submit must be your own.** Also, when turning in assignments, clearly indicate who (if anybody) you have worked with. As a rule, you should freely discuss the ideas, but write them up on your own. Copying someone else's solutions or letting others copy your work is prohibited. Do not cheat. If you have questions about the best way to adhere to this policy, come by and discuss it with me. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination, or course, receiving a notation of a violation of academic integrity on your transcript (F!), or being suspended from the University.