

Topology II

MA 671 -OX

Summer 2020

Instructor: Alexander Blokh
Office Hours: T Th, 2:00 - 3:00pm
Contacts: email ablokh@uab.edu
Class Meetings: T Th, 3:00-5:00pm

Material: J. R. Munkres, Topology, second edition. We will begin with review of Sections 23, 24, 26, 27 (Topology I). Then we will proceed studying new topics covered in Chapters 3, 4, 5 and 7 of the textbook.

Some of the listed above topics may not be covered in the course if we do not have time.

Organization

We will meet on Zoom. You can connect to classes from Canvas.

Students will present material “in class”. If you have questions and do not understand something, feel free to contact me by email. We will either resolve the issue through mail or will have a personal zoom meeting.

Mathematics is learned by actively doing it. Hence you should often ask questions during presentations. Also, if you are presenting, you should anticipate questions and prepare answers for them (if you initially don't understand why a statement is true others will most likely have the same problem; hence supply more argument).

Similarly, working problems is crucial for testing and improving your understanding of the material. Topology is very abstract and you have to learn to accept that you are given a set of rules and you must work within them. Why these rules are this way may only be clear later.

Finally you must memorize basic definitions and facts; you cannot function without knowing what a topological space is, what it means for a set to be open, what it means to be the basis for a topology etc.

Grading

Presentations count for 30%

Midterm 30%

Final exam 40%