

INSTRUCTOR: Professor Eric P. Klassen

EMAIL: [klassen@math.fsu.edu](mailto:klassen@math.fsu.edu)

OFFICE: 114 Love Building

OFFICE HOURS: MW 1:15-2:15 or by appointment. Until further notice, OH will be conducted on Zoom. Please inform me by email if you plan to attend Office Hours. (I may not open a Zoom window for OH if no one is planning to attend.)

COURSE WEBSITE: <http://www.math.fsu.edu/klassen/UndergradTopology/index.html>

PREREQUISITES: You must have completed MAC2313 (Calc III) with a grade of C- or better. MGF3301 (Intro to Advanced Math) is strongly recommended. Advanced Calculus is also very helpful. You should not take this course as your first proof-based mathematics course!

TEXT: There is no required textbook, except for the problem list provided by the instructor.

COURSE OBJECTIVES: (1) To learn the basic concepts of elementary topology; this includes topological spaces, bases, connectedness, compactness, continuity, homeomorphisms, convergence. (2) To learn an important body of mathematics by developing the proofs yourself!

MOORE METHOD: This course will be taught using a variant of the Moore method. This method is named after R.L. Moore, a famous topologist who taught at the University of Texas from 1920-1969. The course is structured around a list of problems, which is posted on Canvas. This list was developed by several faculty members in this department, primarily Phil Bowers and John Bryant. The class periods will consist of a series of presentations of the solutions to these problems in numerical order. The instructor will present every third problem on the list; the students will cycle through the remaining problems in alphabetical order by their last names. Most of these problems are statements to be proved. You may seek help from your colleagues, from the instructor, or from outside sources. If you get help from another source, you should acknowledge this during your presentation. It will not detract from the credit you receive. You really need to understand what you are presenting, because the other students and I will ask you questions! I encourage you to explore the proofs not just of the problems you present, but also the problems other students present. If you want to be a mathematician, you need to know this material like the back of your hand!

GRADING: Your final grade will be based on the quality of your presentations. You will be judged on your logic as well as the clarity of your explanations. Some of you have more experience than others when it comes to presenting rigorous mathematics to an audience. Therefore, solving the problem is really only half your job; the other half is preparing a careful presentation of your solution, and practicing it before your turn in class.

ATTENDANCE/MAKEUP POLICY: Attendance is required. Each unexcused absence will lower your grade by 0.2 grade points. For an absence to be excused, you must have valid reason (as described below in "University Attendance Policy"). If at all possible, please notify me in advance. Also, it is doubly important that you not miss class on a day when it is your turn to present! If you absolutely

have to miss such a day, it is crucial that you notify me in advance, since often the solution of your problem will be required for the next person's presentation. Remember: all of you are the teachers in this class, which gives you a large responsibility!

The following paragraphs are mandated by the Faculty Senate to be included in every syllabus:

**UNIVERSITY ATTENDANCE POLICY:** Excused absences include illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

**ACADEMIC HONOR POLICY:** The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University."? (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

**AMERICANS WITH DISABILITIES ACT:** Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

To receive academic accommodations, a student:

- (1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- (2) must provide a letter from OAS to the instructor indicating the need for accommodation and what type; and,
- (3) should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the

Office of Accessibility Services  
874 Traditions Way  
108 Student Services Building  
Florida State University  
Tallahassee, FL 32306-4167  
(850) 644-9566 (voice)  
(850) 644-8504 (TDD)  
oas@fsu.edu  
<https://dsst.fsu.edu/oas>

**CONFIDENTIAL CAMPUS RESOURCES:** Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

Victim Advocate Program  
University Center A, Rm. 4100  
(850) 644-7161  
Available 24/7/365  
Office Hours: M-F 8-5  
<https://dsst.fsu.edu/vap>

University Counseling Center  
Askew Student Life Center, 2nd floor  
942 Learning Way  
(850) 644-8255  
<https://counseling.fsu.edu/>

University Health Services  
Health and Wellness Center  
(850) 644-6230  
<https://uhs.fsu.edu/>

**TUTORING FOR MATH:** On-campus tutoring and writing assistance is available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options - see the Academic Center for Excellence (ACE) Tutoring Services' website or contact [tutor@fsu.edu](mailto:tutor@fsu.edu). High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

**SYLLABUS CHANGE POLICY:** Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.