MAT 410 Intro to General Topology  

Spring 2009

course information summary

Line number: 18599
Times and places Tu Thu 10:30 - 11:45 in ECA 219

Home-page: http://math.asu.edu/~kawski/classes/mat410/09sprg/mat410.html

Instructor: Matthias Kawski
e-mail: kawski@asu.edu (preferred)
Office: Goldwater Center room 354
Office hours: Tu Thu 1:15 - 2:30 and by appointment
Office phone: (480) 965 3376 (very unreliable)
Home phone: (480) 893 0107 (for emergencies)

Textbook: Topology 2/e (Prentice Hall) by James Munkres
Recommended reference: Counterexamples in Topology by L. Steen and J. Seebach. (Dover)

Catalogue description: MAT 410 Introduction to General Topology. (3) once a year.
Topological spaces, metric spaces, compactness, connectedness, and product spaces.
Prerequisite: MAT 300 or 371 or instructor approval.

A regularly updated calendar including homework assignments, due dates, a news-page, and links to related materials will be maintained at http://math.asu.edu/~kawski/classes/mat410/09sprg/mat410.html. However announcements made in class always have priority.

The two main objectives of this course are to provide an introduction to point-set topology that will serve as a foundation for further studies in analysis, geometry, algebraic topology etc., and to provide a training ground for all students to further hone their proof-writing skills, going substantially beyond MAT 300 and MAT 371.

Students are expected to prepare for each class by reading the upcoming section in the textbook, starting to work exercises, and prepare in writing questions regarding the new material. Do NOT expect that everything from the textbook will be copied to the black-board. A substantial part of every class shall be devoted to student presentations of their proofs -- and then subjected to analysis and constructive criticism by the other students. All students are expected to present their work on the board in class. Volunteer early! -- don't wait until the end of the course when the material gets even more demanding. Collaboration for homework and class preparation is highly encouraged and expected for typical in-class and homework assignments! Unless otherwise agreed upon, there will be one or two one-hour test(s) and a two-hour final exam, to be taken individually.

Unless otherwise agreed upon, the semester grade will be roughly composed of 50 % homework, presentations, and constructive criticism of presented work. (40 % if two tests) 30 % final examination (two hours, in-class) and 20 % in-class test (30 % if two tests).