

California State University Long Beach

Math 550A Topology I, Spring 2014

Professor : Ryan Blair

Email : ryan.blair@csulb.edu

Office : FO3-101

Office Hours : Tu 5:15-6:15pm, Th 6:30-7:30pm

Class Meetings: TuTh 4-5:15pm LA5-151

Text: Topology, J. Munkres, 2nd edition

Course web page: <http://www.csulb.edu/~rblair/Math550AS14/index.html>

Prerequisites: Math 361B

Course description: This course is an introduction to point-set topology and algebraic topology. We will cover the following topics together with additional topics as time permits: topological spaces, continuous functions, metric spaces, connectedness, compactness, quotient spaces, countability and separation axioms, Urysohn Theorem, manifolds, homotopy of maps, and the fundamental group.

Attendance: To be successful in this course, you should be present for all class meetings. If you must miss class, please notify me as soon as possible. For more information, see http://www.csulb.edu/divisions/aa/catalog/current/academic_information/class_attendance.html

Homework: Homework assignments will be distributed in class and/or on the course web page, typically once a week. They will be due as noted, always at the beginning of class. You are responsible for being aware of the assignments and due dates. Each homework will contain a reading assignment from the book, a list of exercises, and a list of problems. You are expected to complete all the “exercises,” but to turn in only the “problems.” Doing the full assignment is absolutely crucial! Late homework is not generally accepted.

You are strongly encouraged to work in groups to exchange ideas and help each other understand how to approach problems, but the work you turn in must be your own! If you work with others on an assignment, be sure to indicate the names of the other students on your homework. Homework must be legible, well-organized, and written in complete sentences. Handwritten work is fine, but you are encouraged to type up the problems in LaTeX.

Exams: There will be two midterm exams and one final exam, according to the following tentative

Schedule:

- 1) Midterm 1: in class, February 25th
- 2) Midterm 2: in class, April 10th
- 3) Final exam: Tuesday May 13th 5pm to 7pm

Grades: Your grade for the course will be determined based on the following factors:

Homework 40 %

Midterm exams 15 % each

Final exam 30 %

Office hours: I will hold regular office hours at the times noted above, unless I email or tell you otherwise in class. Alternatively, you may set up an appointment to meet with me.

Accommodations: Students needing accommodations because of a disability should first register with Disabled Student Services and present the appropriate forms issued by DSS to the instructor no later than two weeks from the date classes begin. Information regarding DSS can be found at <http://www.csulb.edu/divisions/students2/dss/>.

Withdraw: The last day to withdraw without receiving a W is **February 3rd**. The last day to withdraw without the CNSM dean's signature is **April 18th**. Plan early since it's sometimes hard to track people down for signatures. Any office hour may be cancelled due to illness or necessary appointments, and the students should not therefore depend on a faculty member being in his/her office for a particular office hour. Students should secure any necessary signatures well in advance of any deadlines.

Academic Integrity: Academic integrity is expected for assignments and exams. The usual penalty for a student caught cheating or plagiarizing includes an F in the course. Further penalties may include probation, suspension, or expulsion from the university. More information can be found on http://www.csulb.edu/divisions/aa/catalog/current/academic_information/cheating_plagiarism.html

Note: The instructor reserves the right to alter anything on this syllabus at any time during the semester. Any alterations will be announced in class.