MAT 530: TOPOLOGY AND GEOMETRY I (FALL 2014)

CHRISTIAN SCHNELL

Basic Information

We meet Monday and Wednesday, 10:00 to 11:20 am, in room P-124 of the Physics Building. My office hours are Friday, 1:00 to 3:00 pm, in room 3-117 of the Mathematics Building. You can also contact me by e-mail at christian.schnell@stonybrook.edu or by phone at (631) 632-8618.

Course Description

MAT 530 is one of the seven core graduate courses that every incoming graduate student needs to take. After introducing topological spaces and continuous functions, we will discuss the basic concepts and results from point set topology (such as connectedness, compactness, product spaces, metrizability theorems). Important classes of examples include metric spaces, function spaces, and topological manifolds. The second half of the course will be an introduction to algebraic topology; we will discuss the fundamental group, its relation to covering spaces, and some applications. The textbook for the course is Topology (2nd edition) by James R. Munkres.

Your grade will be based on three things: your solutions to the weekly homework assignments; an in-class midterm exam; and a comprehensive final exam (on December 16, 2:15 to 5:00 pm).

University Policies

Disability Support Services. If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, Educational Communications Center Building, room 128, at (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: http://www.stonybrook.edu/ehs/fire/disabilities.

Academic Integrity. Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including
categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html.

**Critical Incident Management.** Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn.