Syllabus   Math 758

Spring 2012   Jim Fowler

This course is the last in the standard algebraic topology sequence and provides beginning graduate students with an in-depth study of cohomology theory, assuming a working knowledge of homology theory.

Resources

We present five resources to help you to better understand cohomology.

Office hours

If you have questions, want to work through problems, or just talk about mathematics, please attend office hours.

Name: Jim Fowler
Office: MW658 Mathematics Tower   Office Hours: Monday and Wednesday
Phone: (773) 809–5659   3:30–5:18P.M.
Email: fowler@math.osu.edu   and by appointment
Website: http://www.math.osu.edu/~fowler/

Please email me with any concerns you have; the success of this course depends on open communication.

Textbook

Our text is Allen Hatcher's "Algebraic Topology" published by Cambridge University Press in 2002.

Website

I will post handouts at http://www.math.ohio-state.edu/~fowler/teaching/math758/.

Lectures

We meet Mondays, Tuesdays, Wednesdays, and Thursdays 9:30–10:18A.M. in Derby Hall 062 for an interactive lecture.

Assessment

There are 1000 points possible in this course, broken down as follows.

9 problem sets (540 points; 60 points each). Homework is assigned each week, usually assigned on Monday, and collected the following Monday.

> You should work on the homework problems together, but you must write up your solutions independently.

> You must stay caught up with the homework. But I understand your schedules are very busy, so I will not penalize you for *occasionally* turning in late homework. Do not make a habit of it.

10 problem sessions (60 points; 6 points each). Each Thursday, instead of a lecture, we will work through some problems together. You earn credit by participating at the blackboard or working in small groups.

1 final exam (400 points). The final examination will be a take-home exam, distributed at the last lecture and due the following Thursday.