

# Math 121b

## Algebraic Topology II

### Spring 2007

**Instructor:** Prof. Ivan Horozov  
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**Office:** Goldsmith 205  
**Phone:** 6-3056  
**Class schedule:** Mon, Wed 3.30p.m. – 5.00p.m.  
**Office hours:** Mon, Wed 2.30p.m. – 3.30p.m.  
**Textbook:** Algebraic Topology by Allen Hatcher ( ISBN 0-521-79540-0)

#### **Syllabus**

##### Chapter 2

2.3 Topics in Homology

##### Chapter 3

3.1 Cohomology Groups, Universal Coefficient Theorem

3.2 Cup Product

3.3 Poincaré Duality

**Class e-mail list:** The class e-mail list will be used for communication with the entire class. If you have multiple e-mail addresses, please make sure that I have the one that you consistently check.

#### **Exams and homework:**

Homework will be assigned and collected every other week, graded and returned to you regularly. Reminder for the assignments will be send via class e-mail list.

Take-home final exam will be at the end of the course.

#### **Grading formula:**

Your grade will be based on the homework and the take-home final exam. The take-home final exam will be considered as another homework.

**Students with disabilities:** If you are student with a documented disability on record at Brandeis University and wish to have a reasonable accommodation made for you in 121b, please see me as soon as possible.