Math 616, Real Analysis I, Fall 2005

Class Time:	MWF 1-1:50p.m. in 210 Deady Hall
Instructor:	Dr. Marcin Bownik
E-Mail:	mbownik@uoregon.edu
Homepage:	http://www.uoregon.edu/~mbownik
Office:	334 Fenton
Office Phone:	346-5622
Office Hours:	9:30-10:30a.m. Mon. and Fri., 12-1p.m. Wed., or by appointment
Textbook:	*Real and Complex Analysis,* by W. Rudin, 3rd ed., McGraw-Hill

1. **Background and Goals.** This course introduces students to the subject of real analysis, and to a lesser extent, complex and functional analysis. Topics include: measurability, integration, Riesz Representation Theorem, regular Borel measures, Lebesgue measure, L^p-spaces, and Hilbert spaces. The course, which is the first of three in the sequence, covers most of the chapters 1–4 of the textbook.

2. **Exams.** There will be one midterm in-class exam on Wed. 11/2, and a final exam on Tue. 12/6, 3:15–5:15p.m.

3. **Homework.** Homework problems will be assigned every other week and be due in class on Wednesday on the material of the previous 2–3 weeks. No late homework will be accepted. Group work on homework is encouraged, but each student must individually write and turn in her/his own assignment.

4. **Grading.** The grading distribution will be as follows:

Homework:	25%
Midterm Exam:	25%
Final Exam:	50%