

## MATH 401 INTRODUCTION TO ANALYSIS I: SYLLABUS

Course Index: 269650  
Instructor: Bob Vaughan  
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Office Hours: MWR 2:30-3:20 and otherwise by arrangement.  
Class: MWF 1:25-2:15, 207 Sackett.  
Text: Binmore, Mathematical Analysis, Second edition  
Cambridge Univ Press, 0-521-28882-7,  
Homework: Homework due Mondays except when Monday is a holiday in which case due next class.  
Course Grades:  
Homework 35%,  
Mid-term Exams, Wednesday 23rd September 5%,  
Monday 26th October 10%,  
Wednesday 18th November 15%,  
Final Exam 35%,

A Grade: 90–100%, B Grade: 80–89%, C Grade: 70–79%,

D Grade: 60 - 69%, F Grade 0 - 59%.

Note that these ranges may be adjusted downward and the plus and minus grades will be determined within the appropriate ranges. There is **NO** extra credit work.

### Topics

Review of calculus.

Properties of real numbers: Chapters 1-3.

Sequences: Chapters 4-5.

Infinite series: Chapter 6.

Limits and continuity: Chapters 7-9.

### If time some aspects of the following may be covered

Differentiation: Chapter 10.

Power series: Chapter 18.

Late homework will not be accepted unless prior permission is granted. No homework will be accepted after the graded ones have been returned to the students.

No makeup exams are available except by prior arrangement in extenuating circumstances.

All Penn State Policies (see <http://www.psu.edu/ufs/policies/47-00.html#49-20> and <http://www.science.psu.edu/academic/Integrity/index.html>) regarding ethics and honorable behavior apply to this course.

Special Fall 2009 Flu Protocols – In compliance with Pennsylvania Dept. of Health and CDC recommendations, students should NOT attend class or any public gatherings while ill with influenza. For health-related questions you can email Dr. Margaret Spear, director, University Health Services, at [uhsinfo@sa.psu.edu](mailto:uhsinfo@sa.psu.edu).