Time: MW 3:10 - 4:25 PM  
Place: Wilson 405  
Instructor: Professor Hotchkiss  
Office: Wilson 411L  
Office Phone: 572-5575  
E-mail: photchkiss@wsc.ma.edu  
This is a great way to get in touch with me.

Office Hours:  
Monday, Wednesday and Friday 9:15 - 10:45 am  
and by appointment
Although I do not have office hours scheduled for Tuesday and Thursday, I often will be around on those days.

Text: None

THE COURSE: Analysis is essentially the study of infinite processes. Real Analysis arose to prominence during the “age of analysis” in the nineteenth century; during which mathematicians discovered that many of their assumptions about functions, continuity, differentiability, integrability, series etc., were incorrect. As mathematicians tried to grapple with the newly found subtleties of these ideas, they began to develop the necessary definitions and techniques needed to understand them and created the field of mathematics called Real Analysis.

TOPICS: In this class we will study some of the underlying ideas in analysis. You were introduced to these topics in Calculus I and II, however in this course we will explore these topics in more depth. The topics we will study include limits, continuity, differentiability, integrability and series.

CLASS STRUCTURE: Class will be a mixture of lectures and group activities that explore the material from this field.

GOALS:  
• An awareness of the importance of limits, continuity, differentiation, integration and series to our understanding of calculus.  
• An understanding of the history of analysis and the role it plays in the growth of mathematics.  
• To improve your analytical abilities such as reading, writing and reasoning.
GRADING:

**Homework:** The problems that are assigned for each section are meant to be representative of what you should be learning. It is extremely critical that you work on the homework problems when they are assigned, as they will help you understand the concepts and techniques that we are studying. I will collect these problems, and while you may work on these problems with other students, your write up must be your own. If you are working with another student who individually discovers a key insight that allows you to solve a problem, you may use that insight as long as you give them credit in your solution. Work that has been copied from another student or another source will result in failing grades on that assignment and will be considered a violation of the college policy on academic honesty. See the section on Academic Honesty below.

Because I encourage you to work together, one way to do this is to use the Course Page which is accessible through the URL http://mywestfield.wsc.ma.edu . This page will have a place where you can post questions and discuss your work. There is also a chat option if you want to have real time discussion.

**Exams:** There will be one take home exam tentatively scheduled to handed out on March 9 and due March 13 by noon. There will also be a take home final exam that will be due on Wednesday, May 11 during the final exam period (12:20 - 2:20 pm).

**Grades:** Course grades will be determined using the following percentages:

- Homework 60%
- Exams 25%
- Class Participation 15%

CLASS STRUCTURES AND MATERIALS:

**Work Groups:** Group work will be an important part of this course. Some of the time we will be working in small groups during class and I strongly encourage you to work in groups of 3 or 4. I will not assign these groups because you will need to find people whose schedule is compatible with your own. The purpose of this is twofold. First, working in groups is essential in any job and second, working in groups is excellent opportunity to stop and think (and therefore learn) about what we are doing- with the added benefit of having someone to help work out those things you are not clear about.

**Academic Honesty:** Academic Honesty is a vital part of any academic setting and it is expected that you will follow the College policy on Academic Honesty (see page 42 of the College Bulletin for a full description of this policy). Assignments that are found to be in violation of this policy will be dealt with severely. Punishments can range from a poor grade on the paper to an F for the course. No matter what the punishment, a formal letter detailing the violation will be sent to the Vice-President of Academic Affairs and placed in your Academic file.

ADDENDUM:

- Cell phones are to be turned off during this class. If I catch you using a cell phone during class I reserve the right to confiscate it for the remainder of the period.
  - If someone needs to reach you in an emergency, they can call the department secretary at 572-5349 or public safety at 572-5262.
- This syllabus is subject to change with prior notification.
- There is a copy of this syllabus on the course page at http://www.wsc.ma.edu/math/faculty/hotchkiss/MA308/MA308.asp