Theoretical Mathematics
Math 0413, Winter 2014, CRN 11408
George Sparling
Laboratory of Axiomatics
University of Pittsburgh
Pittsburgh, Pennsylvania, USA

Course Information

- **Classes**
  This class is Mathematics 0413, CRN 11408, Theoretical Mathematics. The classes are in PUBHL A522, Mondays and Wednesdays, 4.30pm-5.45pm. The first class is Monday January 6th, 2014. The last class is Friday April 18th, 2014.
  There is no class on Monday January 20th 2014 and no classes in the period Thursday 6th March-Sunday 16th March 2014.

- **Instructor**     George Sparling
- **Office**        609 Thackeray
- **Text**          1-412-576-1429

- **e-mail**        gniraps@gmail.com
- **webpage**       http://www.math.pitt.edu/ sparling.

- **Office hours**
  Until 4/23/14, Mondays and Wednesdays, 2.00-4.00pm, in the Math Lounge, 705 Thackeray, or by appointment.

- **Recitations**
  The recitations, CRN 11255, take place in Thackeray 704 on Tuesdays and Thursdays, 4.30pm-5.20pm.

- **Recitation Instructor**
  The recitations will be led by Luca Codenotti, luc23@pitt.edu. Luca will have office hours in MAC, noon-1pm, Tuesdays and Thursdays.
Class Schedule

- Every second week, on Wednesdays, there will be a quiz or an exam.
- Quizzes and exams will be open book.
- Every week there will be a homework due in the Thursday recitation and graded by Luca.
- Homeworks will be eight problems each at five points.

Schedule

- Wednesday January 22nd  Quiz 1
- Wednesday February 5th  Quiz 2
- Wednesday February 19th  Quiz 3
- Wednesday March 5th  Midterm Exam
- Wednesday March 26th  Quiz 4
- Wednesday April 9th  Quiz 5
- Wednesday April 23rd  Final Examination in class, noon-2pm
Special needs

If you have need special accommodations during the course, you are encouraged to contact me and Disability Resources and Services, 140 William Pitt Union, 412-648-7890 or 412-383-7355 (TTY) as early as possible in the term.

W course requirement

This class counts for the Writing component of your degree. As such you will be required to demonstrate writing skill. Each week one or more homework problems will be designated as a W problem. You will solve this and have it graded as part of your ordinary homework by Luca. He may suggest editorial changes that you should make to clarify your argument. You are then free to edit it as you wish. Then near the end of term, deadline Friday April 18th, you will submit your best five such problems to George to be graded for writing skill, clarity and organization.

Grading

There are 14 homeworks, 5 quizzes, two midterms and a final exam during the term. Also the best five W problems will be graded for writing skill, clarity and organization.

Grading Scheme

- Best 12 homeworks at 40 points each 480pts
- Best 4 quizzes at 50 points each 200pts
- One midterm examination at 140 points each 140pts
- One final examination at 200 points 200pts
- Five W problems at 20 points each 100pts
- Maximum Possible Score 1120pts

Grading is curved and based on your total score only, provided you pass the final.

If you pass the final, grading will be in the A+ to B- range, unless your other work is severely lacking.

If you fail the final, grading will be in the range C+ to F.
Textbook and Syllabus

- **Text**
  The text for this course is:
  **Basic Analysis,**
  by Jiri Lebl
  download the free pdf version from http://www.math.pitt.edu/~frank/pittanal2121.pdf

- **Syllabus**
  We shall cover the first two chapters and some appendices in detail; if time allows we will begin chapter three.