Real Analysis - Math 526

INSTRUCTOR INFORMATION:

Instructor: Tatiana Toro
Office: Padelford C-343, Phone: 543-1173.
E-mail: toro@math.washington.edu
Office hours: Monday 10:30-11:30, Wednesday 9:15-10:15 or by appointment.

TA INFORMATION:

TA: Carto Wong.
Office: Padelford C-404.
E-mail: carto@math.washington.edu
Office hours: Tuesday 4-6 or by appointment.

TEXTS:

- Real Analysis, Measure Theory, Integration & Hilbert Spaces, Stein & Shakarchi [SS]

- Real Analysis, Folland, 2nd Edition [F]

RESERVE LIST:

- Real Analysis, Measure Theory, Integration & Hilbert Spaces, Stein & Shakarchi.

- Real Analysis, Folland, 2nd Edition.

- Real Analysis, Royden, 3rd Edition

- Real and Abstract Analysis, Hewitt & Stromberg.

- Real and Complex Analysis, Rudin.

- Functional Analysis, Rudin.

SYLLABUS:

- The dual of $C(X)$ [F], Ch 7.

- Compact operators on Hilbert spaces [SS], Ch 4.

- Elements of Fourier Analysis [F], Ch 8.

- Elements of Distribution Theory [F], Ch 9.

GRADING POLICY:

- Homework 25%. There will 9 weekly homework assignments due on Wednesday at the beginning of class. Each homework will include one or two prelim problems.

- Midterm 15%. The problems will come directly from the homework.

- Final Exam 60%. All the material covered in Math 524, 525 and most of the material covered in Math 526 will be included in this exam.

IMPORTANT DATES:

- Midterm exam, Friday May 6, 2011, in class.

- Final exam, Wednesday June 8th, 2011 1:30-5:30

REMARKS: There will be no class on Monday May 30th.