Real Analysis - Math 526

INSTRUCTOR INFORMATION:

Instructor: Tatiana Toro
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Office hours: Wednesday 1:00-2:30 or by appointment.

TA INFORMATION:

TA: Leonard Wong
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Office hours: Tuesday 2-4 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:

- Banach spaces and L^p spaces [F], Ch 5 and Ch 6.

- 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 40%. There will 9 weekly homework assignments due on Wednesday at the beginning of class. Each homework will include one or two prelim problems.

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

IMPORTANT DATES:

- Final exam, Wednesday June 11th, 2011 1:30-5:30

REMARKS: There will be no class on Monday May 26th.