INTRODUCTION TO MATHEMATICAL PHYSICS
MATH 541: SYLLABUS

FALL 2012

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<tr>
<th>Instructor:</th>
<th>Office:</th>
<th>Office Hours:</th>
<th>Phone:</th>
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<tr>
<td>Robert Sims</td>
<td>Math 610</td>
<td>By Appointment</td>
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My e-mail address is: rsims@math.arizona.edu

1. **Textbook:**

The textbook for this course is: *Mathematical Methods in Quantum Mechanics: With Applications to Schrödinger Operators* by Gerald Teschl.

2. **Material to be Covered:**

My goal is to cover chapters 1-7, the first two sections in chapter 10, and chapter 12. This will depend on the preparation of the class. In principle, measure theory should be a prerequisite for this course. Since I wish to make this class accessible to more students, I have not made this prerequisite firm. Background information will be provided as necessary.

3. **Grading Policy:**

I will assign homework on a regular basis. There will be no midterm exam. On November 27, I will post a **take-home exam**. Your solutions will be due on December 7 (in my office) by 3pm. The final grade will be assigned based on your performance on the homework and the final. No formal point system will be used. The grade “W” will be awarded to any student who requests this grade on or before October 12. The grade of “I” can be awarded only in exceptional cases to a student who has a valid reason for not completing the course on time (illness, solid family reasons), and who has shown a passing performance in class.