

# Physics 441 Quantum Mechanics

## Winter Quarter 2005

**Professor:** Larry Sorensen  
**Office:** B-435 PAB  
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**Office hours:** Right after class, or by appointment

**Required text 1:** Principles of Quantum Mechanics by R. Shankar  
**Required text 2:** The Ghost in the Atom by P.C.W. Davies and J.R. Brown  
**Required text 3:** Quantum by Example---available from the class website

**Class Website:** <http://faculty.washington.edu/seattle>

<b>Grading:</b>	Homework	20%
	Exams	80%

## Tentative Course Timetable

The week of	Topic	HW due
January 3	The Mathematics of Quantum Mechanics	Jan 12
January 10	The Mathematics of Quantum Mechanics	Jan 19
January 17	The Postulates of Quantum Mechanics	Jan 26
January 24	One-Dimensional Problems	
January 31	One-Dimensional Problems	Feb 9
February 7	The Simple Harmonic Oscillator	Feb 16
February 14	Angular Momentum	Mar 2
February 21	The Hydrogen Atom	
February 28	The Hydrogen Atom	Mar 9
March 7	Nonrelativistic Path Integrals	

<b>Exam 1</b>	<b>February 16 to 23</b>
<b>Exam 2</b>	<b>March 9 to 16</b>

Winter Holidays:	January 17 and February 21
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