

# Physics 441 Quantum Physics

## Winter Quarter 2004

**Professor:** Larry Sorensen

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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:** The Virtual Book---available on the class website

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

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

## Tentative Course Timetable

Lectures			HW Due
January 5, 7	Chapter 1	The Mathematics of QM	Jan 14
January 12, 14	Chapter 1	The Mathematics of QM	Jan 21
January 21, 26	Chapter 4	The Postulates of QM	Feb 4
Jan 28, Feb 2, 4	Chapter 5	One-Dimensional Problems	Feb 11
<b>February 18</b>	<b>First Exam</b>	<b>On Chapters 1, 4, 5</b>	
February 9, 11	Chapter 7	The Harmonic Oscillator	Feb 25
February 23, 25	Chapter 12	Angular Momentum	Mar 3
March 1, 3	Chapter 13	The Hydrogen Atom	Mar 10
March 8, 10	Chapter 8	Path Integrals	
<b>March 17</b>	<b>Second Exam</b>	<b>On Chapters 7, 12, 13</b>	

**UW Winter Holidays:** January 19 and February 16