

*A paradox is not a conflict within reality. It is a conflict between reality and your feeling of what reality should be like.*

Richard Feynman

## PHYSIC 613 - Quantum Mechanics

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<b>Main topics</b>	<b>Weeks (tentative)</b>
<i>Quantum Mechanics at a glance</i>	1
<i>Semiclassical approximation</i>	2-5
<i>Perturbation theory</i>	6-8
<i>Variational methods</i>	9-10
<i>Hydrogen atom</i>	11-12
<i>Multi-electron atoms, Thomas-Fermi theory</i>	13-14

### Text

I recommend Sakurai, *Modern Quantum Mechanics* as a reference. However, it is not mandatory.

### Grading

problem sets	30%
midterm	20%
final	50%

### Homework

One (or more) homework every two weeks.

### Midterm

In-class, open book, open notes.

### Final

In-class, open book, open notes.