

# PHY-511: Quantum Mechanics I

Ismail Zahed

NTG-C141 Ext: 2-8129 Office Hour: F 3:4

zahed@tonic.physics.sunysb.edu

## Outline

1. Perspective in QM
2. Formalism of QM
3. Time Evolution
4. QM in 1-dimension
5. Coherent States
6. WKB and Instantons
7. Path Integrals
8. Gauge-Invariance
9. EPR and Bell Inequalities

## Reference Material

J. Sakurai, Modern Quantum Mechanics, ed. Addison Wesley

## Grade

The grade will be : Hw (1/3) + Mid (1/3) + Fin (1/3)

## Grader

TBA