# PHY-511: Quantum Mechanics I

## Ismail Zahed

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#### 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. Adison wesley

# Grade

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

#### Grader

You Quan Chong