Physics 531 • Introduction to Quantum Mechanics • Spring 2013
SYLLABUS

This course provides an introduction to Quantum Mechanics: Historical background and experimental basis, de Broglie waves, statistical interpretation, uncertainty principle, time-independent Schrödinger's equation, hydrogen atom, electron spin, Pauli principle; applications of wave mechanics.

- **Prerequisites**
  Physics 311 and Physics 322.

- **Lecturer**
  Prof. Yang Bai (5211 Chamberlin Hall, yangbai@physics.wisc.edu).

- **Grader**
  Mr. Diptaranjan Das (ddas5@wisc.edu).

- **Classroom and meeting time**
  MWF 1:20-2:10 pm, 2104 Chamberlin Hall.

- **Course website**
  Online materials include announcements, lecture notes, homework assignments, review problems, and solutions.

- **Office hour**
  Thursday 3-4 pm. 5211 Chamberlin Hall.
  Contact Prof. Yang Bai by email (yangbai@physics.wisc.edu) if you want to make an appointment at other time.

- **Grading**
  20% Homework
  15% Midterm 1
  15% Midterm 2
  15% Midterm 3
  35% Final exam

  The minimum cumulative score to obtain an A can be expected to be roughly around 85%.
  The minimum cumulative score to obtain an B can be expected to be roughly around 70%.
  The minimum cumulative score to obtain an C can be expected to be roughly around 50%.
  Students signed up for the honor session are expected to do extra honor problems in the homework.

Homework will be assigned on weekly basis, and can be found on the course website. Collaboration and discussion is encouraged, but individual solutions must be submitted.
Homework will be collected right before the start of class on the due day. Late homework will not be accepted.

Solutions will be available on the course website.

- **Textbook**

- **Absence policies**
  [https://kb.wisc.edu/ls/page.php?id=24628](https://kb.wisc.edu/ls/page.php?id=24628)

- **Classroom behavior**
  No use of cell phones is allowed.

- **Other policies**
  For policies against academic misconduct including cheating and plagiarism, see [https://kb.wisc.edu/ls/page.php?id=21697](https://kb.wisc.edu/ls/page.php?id=21697)

The information contained in this syllabus may be subject to change with reasonable advance notice.