Logistics  Lecture Room:  LO 1100 (Science I, 1st floor)
Meeting Time:  Tuesday and Thursday 9:30 – 10:45 am

Instructor  Prof. Nicholas Kioussis
Office:  LO 1123 (Science I 1123)
Office Hours:  M: 8:45 – 9: 15 am;  F:  8:45 – 9: 15 am; and by appointment
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Prerequisites  Physics 227 – Calculus based course on Thermodynamics, Waves, and Modern Physics

Textbook  Introductory Quantum Physics
Richard Liboff, 4th Edition

Objectives  This course has the general aim: to introduce the students to several topics in Quantum Physics ranging from a Historical Review on Experiments and Theories (Chap. 2), the postulates of quantum mechanics – operators, eigenfunctions and eigenvalues (Chap. 3); Function spaces and Hermitian Operators (Chap. 4); Superposition and compatible observables (Chap. 5); Time development and conservation theorems (Chap. 6); One-dimensional problems – Barrier problems, harmonic oscillator (Chap. 7); Finite potential well, periodic lattice (Chap. 8). We will cover Chapters 2 -8 in Liboff.

Homework  I would like to emphasize strongly the issue of problem solving. Learning how to approach and solve problems is the most basic and essential part of this course, and it is a highly useful skill in itself. Solving problems is also important because the process brings understanding of the physics and helps perform well in the exams. The assigned problems are by no means the only ones the students should attempt. They are just a set representative of the type of problems the
students should know how to solve. Students are encouraged to work in groups in attempting these problems.

**Requirement** The final letter grade for the course will be determined by the scores from 1) two in-class mid-term tests (25%, 25%); 2) the final exam (30%) and 3) the homework (20%). The letter grades will be based on the overall performance of the class. All tests will be closed book and notebook. Students will be provided with a sheet which will contain ALL necessary equations and constants. The two midterms and final will be on:

- **1st midterm:** Tuesday October 3, 2006
- **2nd midterm:** Thursday November 2, 2006
- **Final:** Finals week (check catalog)

There will be weekly homework assignments; the solutions will be made available on my web site one week after the material is covered. The homework will be collected the following week and problems will be graded and returned the following week. The students are expected to work on the homework problems, as it is the surest way of learning the material. My web site is: [http://www.csun.edu/~nkioussi/](http://www.csun.edu/~nkioussi/).