

**PHYSICS 480-001 / CRN 73203**  
**QUANTUM MECHANICS**  
FALL 2010 / August 23-December 17  
Watanabe Hall 114 / MWF, 10:30 AM - 11:20 AM

**Instructor**

Dr. Chester Vause  
Professor, Department of Physics & Astronomy  
Watanabe Hall 434, 808-956-2989, [cvause@hawaii.edu](mailto:cvause@hawaii.edu)  
Office Hours: MW 2:00PM-3:00PM, TTh 12:00PM 1:00PM, or by appointment.

**Textbooks (Required)**

*Main Textbook*

Lectures on Quantum Mechanics, Gordon Baym (W. A. Benjamin, Inc. Reading, MA 1973)

*Supplementary Textbooks*

Introduction to Quantum Theory (3<sup>rd</sup> edition), David Park (Dover Publications, Inc., New York, 1992)

Introduction to Quantum Mechanics with Applications to Chemistry, Linus Pauling and E. Bright Wilson, Jr. (Dover Publications, Inc., New York, 1963)

Problems in Quantum Mechanics, I. I. Gol'dman and V. D. Krivchenkov (Dover Publications, Inc., New York, 2006)

**Chapters**

Baym chapters 1-10, supplemented by Park, Pauling and Wilson:

Omitted sections in chapters to be announced in class. Selected topics in other chapters may be included, time permitting.

**Holidays**

Monday	September 6	Labor Day
Tuesday	November 2	General Election Day
Thursday	November 11	Veterans Day
Thursday	November 25	Thanksgiving Day
Friday	November 26	Instructional Holiday

2010-2011 Calendar: <http://www.catalog.hawaii.edu/about-uh/calendar.htm>

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**Grade**

Homework Problems

Homework problems assigned weekly. Selected problems will be graded.

Exams

In-class exams are open textbook, class notes, table of integrals and mathematical formulas, and calculator. Exam dates are:

Exam 1	Friday	October 1, 2010
Exam 2	Friday	October 29, 2010
Exam 3	Wednesday	November 24, 2010
Final Exam	Friday	December 17, 2010, 9:45AM – 11:45AM

$$\text{Total Score (100\%)} = 64\% \text{ (Exams)} + 36\% \text{ (Homework)}$$

Each Exam is worth 16% of the Total Score ( $4 \times 16\% = 64\%$ ). Each Exam (including the Final Exam) is based on material covered since the previous Exam. Letter grade is determined from the total score according to the following scale:

A- (86%-90%)	A (91%-95%)	A+ (96%-100%)
B- (61%-70%)	B (71%-80%)	B+ (81%-85%)
C- (31%-40%)	C (41%-50%)	C+ (51%-60%)
	F (0%-20%)	D (21%-30%)

*NO INCOMPLETE GRADE GIVEN*