

Goals of Physics 141, 142: (1) To provide the student with a clear and logical presentation of the basic concepts and principles of physics; (2) To strengthen an understanding of these concepts and principles through a broad range of applications to the real world; (3) To demonstrate these concepts and principles through laboratory exercises.

## Physics 142

Spring Semester, 2007

Prerequisite: Math 111 or 110A and Physics 141 or 151

Text: Serway, Faughn, Vuille, College Physics, Seventh Edition

Instructor: Dr. William Baird, Pierce 207

Course Content: There will be three tests and a final exam. Also thirteen quizzes, the best ten of them to be counted as a fourth test grade. The tests can be made-up only with advance notice and circumstances of illness or death. The quizzes cannot be made-up; absence from a quiz results in a zero for that quiz.

### Electricity, Magnetism, Optics and Modern Physics

Chapters 15, 16, 17, 18

Test 1 (February 16, 2007, 2-4 pm)

Chapters 19, 20, 21

Test 2 (March 23, 2007, 2-4 pm)

Chapters 22, 23, 24, 25

Test 3 (April 20, 2007, 2-4 pm)

Chapters 27, 28

Final Exam (May 8, 2007, 9:00 – 12 noon)  
(cumulative)

Weighting: Tests and quizzes 60%, Labs 20%, Final Exam 20%

Grading: Grades given for this course will be a subset of A, A-, B+, B, B-, C+, C, C-, D+, D, F. See Catalog.

Attendance: Not required, but encouraged.

The Oxford College Honor Code applies to all written work in this course.