

Goals of Physics 151, 152: (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; (4) To employ the student's full mathematical background, including calculus, in problem-solving.

## Physics 151

Fall Semester, 2005

Prerequisite: Math 111 or equivalent      Corequisite: Math 112

Text: Serway and Jewett, Physics for Scientists and Engineers with Modern Physics, Sixth Edition

Instructor: Dr. William Baird, Pierce 207

Course Content: There will be three tests and a final exam. Also at least thirteen HW sets, 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 HW sets lose a letter grade in value for each day of lateness.

### Mechanics, Wave Motion, and Thermodynamics

Chapters 1, 2, 3, 4, 5, 6

Test 1 (September 23, 2005, 2-4 pm)

Chapters 7, 8, 9, 10, 11, 12

Test 2 (October 21, 2005, 2-4 pm)

Chapters 15, 16, 17, 18

Test 3 (November 18, 2005, 2-4 pm)

Chapters 19, 20, 21, 22

Final Exam (December 16, 2005, 9 am - 12 pm)  
(cumulative)

Weighting: Tests and HW 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, page 84.

Attendance: Not required, but encouraged.

The Oxford College Honor Code applies to tests and exam in this course. Homework sets may be collaborated, but must be written up independently. Laboratory analysis and calculations may be shared, but reports must be written independently.