

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 152

Spring Semester, 2003

Prerequisite: Math 112 and Physics 141 or 151

Text: Serway and Beichner, Physics for Scientists and Engineers with Modern Physics, Fifth 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.

### Electricity, Magnetism, and Optics

Chapters 23, 24, 25, 26

Test 1

Chapters 27, 28, 29, 30

Test 2

Chapters 31, 32, 33, 34

Test 3

Chapters 35, 36, 37, 38

Final Exam (cumulative)

Weighting: Tests and HW sets 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 83.

Attendance: Not required, but encouraged.

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