

Northern Illinois University

Course Syllabus for Physics 150A --- Basic Physics

Fall Semester, 2015

Instructor: Dennis Eugene Brown Faraday West 208W and/or 213W
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Office Hours: MWF 10am – 12noon tel: 630-910-5512

Course Textbook: How Things Work (5th edition) **Author:** Louis A. Bloomfield

We will be covering the following material in Bloomfield: (Tentative Schedule)

Galilean Mechanics: Chapter 1
Newtonian Mechanics: Chapter 2
Work and Kinetic Energy: Chapter 3,4
Quiz #1
Fluids: Chapter 5,6
Heat: Chapter 7,8
Electricity & Magnetism: Chapters 10,11
Quiz #2
Special Relativity: Notes
Waves & Sound: Chapter 9
Electromagnetism: Chapter 12
Quiz #3
Optics: Chapter 13,14
Quantum Mechanics: Chapter 15
Final Exam (Mon. December 7, Noon-1:50 p.m.)

Problem Sets will be posted on www.niu.edu/brown every week, and they will be due one week later at the beginning of the class (**not at the end of class**). Late homework will be penalized 10% per day (however, Problem Sets # 3, 6, 9—the problem sets just before quizzes—and the final problem set will not be accepted late).

All quizzes and exams are closed book, and closed notes. Graphics Calculators and Cell Phones will not be allowed, only scientific calculators can be used.

Tentatively: All Problems Sets will make up 25% of the **lecture** grade

Each quiz “ “ 15% ” ”

Final Exam “ “ 30% “ “

Lecture grade will make up 75% of the **final** grade

Lab will make up 25% of the **final** grade

The lowest scoring Problem Set will not be counted towards the final grade.

There are Physics Tutors available in Faraday East Room 251