

Northern Illinois University

Course Syllabus for Physics 253 --- Basic Mechanics

Fall Semester, 2014

**Instructor:** Dennis Eugene Brown      Faraday West 208W and/or 213W  
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**Office Hours:** MWF 10am – 12noon;      tel: 815-753-6397

**Textbook:** Physics for Scientists & Engineers (4<sup>th</sup> edition)

**Author:** Giancoli

We will be covering the following material through **Class Notes** that will be distributed on the Web: (Tentative Schedule)

Units and Significant Figures:	Unit 1
Basic Kinematics:	Unit 2
Vector Kinematics:	Unit 3
Projectile Motion:	Unit 4
Quiz #1	
Newtons's Laws:	Unit 5
Basic Dynamics with Friction:	Unit 6
Dynamics of Circular Motion:	Unit 7
Quiz #2	
Work Energy Theorem:	Unit 8
Conservation of Energy:	Unit 9
Conservation of Momentum:	Unit 10
Quiz #3	
Torque and Static Equilibrium:	Unit 11
Rotational Dynamics:	Unit 12
Angular Momentum:	Unit 13
Final Exam (Wed. December 10, 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**