

ENGR 220 Dynamics- Syllabus

Instructor: Michael J. Anderson (<http://calvin.engr.uidaho.edu/~anderson/mikea.htm>)

Office: EP 324O

Phone: 885-7432

Email: anderson@uidaho.edu

Class Time: 9:30AM-10:20AM

Class Location: AD 317

Office Hours: TBA

Textbook: Hibbler, R.C., "Engineering Mechanics, Dynamics", 11th Ed, Pearson Prentice Hall, 2007.

Class Web Page: <http://calvin.engr.uidaho.edu/~anderson/Engr220Fall07.htm>

Topics

<i>Topic</i>	<i>Sections</i>
Kinematics of a Particle	12.1-12.10
Kinetics of a Particle Exam #1 Kinetics and Kinematics of a Particle	13.1-13.6
Kinematics of a Rigid Body Exam #3 Kinematics of a Rigid Body	16.1-16.8
Kinetics of a Rigid Body Exam #3 Kinetics of a Rigid Body	17.1-17.5
Work, Energy, Impulse Momentum	14.1-14.6, 15.1-15.4
Final Exam	

Homework

There will be approximately 9 homework assignments during the semester. The specific assignments and due dates are posted on the class web site.

One problem from each set will be chosen at random from each assignment for grading. The score this problem will be used for the entire assignment.

Grading

<i>Item</i>	<i>Grade Weight</i>
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	30%
Homework	10%

Homework Format

Documentation to be broken into Given, Find, Approach and Tools, Solution, and Judge Validity sections.

General Guidelines: Staple pages of assignment in upper left corner. Don't write on the back of engineering paper. Only box or underline the answers.

Suggested contents of the sections are described below:

Given: Sketch of problem. Identification of objects, locations with symbols. Numerical data, units, directions.

Find: A statement of the quantities that are to be calculated.

Approach and Tools: Verbal statement of strategy, procedure. Equations. Sketches of configurations, coordinate assignments, definitions of variables to be used.

Solution: Step by step application of procedure and equations to determine results. Double underline results, include units.

Judge Validity: A statement that uses a calculation or diagram to verify the results. This statement may justify the magnitude or sign of the result. It may check the answer against a previous equation, assumption, or construct used in the solution.