

29:205

Classical Mechanics

Fall 2008

T Th 9:30-10:45 301 Van Allen Hall

Course Description

This course is a survey of the dynamics of mass points; Lagrange multipliers, small oscillations, Hamilton's equations; canonical transformations, Hamilton-Jacobi theory; continuum mechanics, and chaos.

Instructor: F. Skiff
504 Van Allen Hall
335-0564
frederick-skiff@uiowa.edu

Office Hours T-Th 2:00-3:30
and by appointment.

Text: Fetter and Walecka, *Theoretical Mechanics of Particles and Continua*, McGraw-Hill.

Course Web page <http://www.physics.uiowa.edu/29/205.html> Everything relevant to the course will be made available on the web page.

Homework

Homework will be assigned on Thursdays and collected the following Thursday. The first homework will be assigned August 28 and will be due September 4.

Exams

There will be one mid-term exam **Thursday October 16** during the usual class time and place. There is a final exam **12:00 P.M. Wednesday, December 17 2008** in room 301 Van Allen Hall.

Required Time

The College standard for a three credit course is 6 hours per week of time outside of the lectures.

Course Grade: 40% homework, 20% midterm, 40% final.

The College of Liberal Arts and Sciences

Policies and Procedures

Administrative Home

The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall or see the Academic Handbook.

www.clas.uiowa.edu/students/academic_handbook/index.shtml

Academic Fraud

Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is reported to the departmental DEO and to the Associate Dean for Academic Programs and Services who enforces the appropriate consequences. www.clas.uiowa.edu/students/academic_handbook/ix.shtml

Making a Suggestion or a Complaint

Students with a suggestion or complaint should first visit the instructor, then the Associate Chairman (Dr. Reno) in room 515 VAN and the departmental DEO (Dr Boggess in room 207 VAN. Complaints must be made within six months of the incident.

www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5

Accommodations for Disabilities

A student seeking academic accommodations should register with Student Disability Services and meet privately with the course instructor to make particular arrangements. For more information, visit this site:

www.uiowa.edu/~sds/

Understanding Sexual Harassment

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit www.sexualharassment.uiowa.edu for definitions, assistance, and the full University policy.

Reacting Safely to Severe Weather

In severe weather, the class members should seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and free-standing expanses. The class will continue if possible when the event is over. (Operations Manual [16.14. i.](#))