Physics & Astronomy
University of Iowa

PHYS:3710 Syllabus
Spring 2017

Instructor
Craig Pryor
402 VAN
319-335-0099
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Lectures
MWF 10:30-11:20, 70 VAN

Web Site
homepage.physics.uiowa.edu/~cpryor/3710

Office Hours
M 1:00-2:00 Tu 12:00-1:00, Wed 2:00-3:00, or by appointment

Course Description
Newtonian mechanics; noninertial reference systems; central forces, celestial mechanics; rigid body motion; Lagrangian, Hamiltonian equations of motion; small oscillations. We will cover chapters 1-11, and 13 in the textbook.

Text

Homework
Assigned every Wednesday, due in class the following Wednesday.

Exams
Midterm 1: TBA
Midterm 2: TBA
Final: TBA
The problems on the midterms and final will be taken from the problem sets and the examples in the textbook. Computer problems will not be included.

Grading
homework 20%, midterms 25% each, final exam 30%

The curve follows the CLAS standard for intermediate courses (see https://clas.uiowa.edu/faculty/teaching-policies-resources-grading-system-and-distribution#rec)

18% A, 36% B, 39% C, 5% D, 2% F (all ±1 person)

Department of Physics and Astronomy Main Office
203 Van Allen Hall
319-335-1686
Chair -- Professor Frederick Skiff, frederick-skiff@uiowa.edu

AVAILABILITY OF MODIFICATIONS
A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See https://
Required information for students

POLICY GOVERNING UNDERGRADUATE AND PROFESSIONAL STUDENTS ENROLLED IN COURSES OUTSIDE THEIR OWN COLLEGE OR DEGREE PROGRAM

This course is given by the College of Liberal Arts and Sciences. This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College of Liberal Arts and Sciences. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences. Details of the University policy of cross enrollments may be found at: http://www.uiowa.edu/~provost/deos/crossenroll.doc.

PROCEDURES FOR STUDENT COMPLAINTS

A student who has a complaint related to a Physics or Astronomy course should follow the procedures summarized below. The full policy on student complaints is on-line in the College's Student Academic Handbook http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#4. Ordinarily, the student should attempt to resolve the matter with the instructor first. If the complaint is not resolved to the student's satisfaction, the student should go to the course supervisor (if the instructor is a teaching assistant) or to Associate Chair, Professor Paul Kleiber. If the matter remains unresolved, the student may submit a written complaint to the Associate Dean for Academic Programs, 120 Schaeffer Hall (335-2633). The associate dean will attempt to resolve the complaint and, if necessary, may convene a special committee to recommend appropriate action. In any event, the associate dean will respond to the student in writing regarding the disposition of the complaint. For any complaint that cannot be resolved through the mechanisms described above, please refer to the College's Student Academic Handbook for further information.

PLAGIARISM AND CHEATING

A student suspected of plagiarism or cheating must inform the student in writing as soon as possible after the incident has been observed or discovered. Instructors who detect cheating or plagiarism may decide, in consultation with the departmental executive officer, to reduce the student's grade on the assignment or the course, even to assign an F. The instructor writes an account of the chronology of the plagiarism or cheating incident for the DEO (Associate Chair), who sends an endorsement of the written report of the case to the Associate Dean for Academic Programs, CLAS. A copy of the report will be sent to the student.

A detailed policy is printed in the Schedule of Courses and the College's Student Academic Handbook.

AMOUNT OF WORK EXPECTED

The College guideline is that one semester hour of credit is the equivalent of approximately three hours of work (class time + out-of-class preparation) each week over the course of a whole semester. Therefore in this class you should expect to spend an average of 9 hours per week.

STUDENT RIGHTS AND RESPONSIBILITIES

All students in the College have specific rights and responsibilities. You have the right to adjudication of any complaints you have about classroom activities or instructor actions. Information on these procedures is available in the Schedule of Courses and on-line in the
College's Student Academic Handbook (http://www.clas.uiowa.edu/students/academic_handbook/). You also have the right to expect a classroom environment that enables you to learn, including modifications if you have a disability. Your responsibilities to this class-and to your education as a whole-include attendance and participation. You are also expected to be honest and honorable in your fulfillment of assignments and in test-taking situations (the College's policy on plagiarism and cheating is on-line in the College's Student Academic Handbook http://www.clas.uiowa.edu/students/academic_handbook/). You have a responsibility to the rest of the class-and to the instructor-to help create a classroom environment where all may learn. At the most basic level, this means that you will respect the other members of the class and the instructor, and treat them with the courtesy you hope to receive in turn.

- Changes in course registration including adding, dropping, and changes in sections, will be made by office personnel in Room 203 VAN between the hours of 8-12 and 1-5 Mon-Fri. If you are taking this course as a second grade option, your instructor needs to be notified.
- Teaching Assistants will be available for free tutoring in room 54 VAN during the hours posted. Students are permitted to seek help from classmates in preparing their homework. While you are encouraged to seek help from TA’s, do not expect them to do your homework for you.
- Homework solutions will be available on the course web site.

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 CLAS Student Academic Handbook.

Electronic Communication
University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences. (Operations Manual, III.15.2. Scroll down to k.11.)

Accommodations for Disabilities
A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See www.uiowa.edu/~sds/ for more information.

Academic Fraud
Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Academic Fraud section of the Student Academic Handbook.

CLAS Final Examination Policies
Final exams may be offered only during finals week. No exams of any kind are allowed during the last week of classes. Students should not ask their instructor to reschedule a final exam since the College does not permit rescheduling of a final exam once the semester has begun. Questions should be addressed to the Associate Dean for Undergraduate Programs and Curriculum.
Making a Suggestion or a Complaint
Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

Understanding Sexual Harassment
Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

Reacting Safely to Severe Weather
In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Public Safety web site.

*These CLAS policy and procedural statements have been summarized from the web pages of the College of Liberal Arts and Sciences and The University of Iowa Operations Manual.