

PHYS:1701, Physics I, Fall 2021

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The University of Iowa strongly encourages students, faculty, and staff to be vaccinated against COVID-19. The university also encourages students, faculty, and staff to wear a face mask while on campus, and strongly encourages the use of face masks in all classroom settings and during in-person office hours. However, face mask usage is not required except on CAMBUS and in specified research and healthcare settings.

Laboratory: This lab explores a number of topics in Newtonian mechanics and conservation laws using the the iOLab device. Attendance to each lab meeting is mandatory. Points will be deducted for tardiness at a rate of 1 pt/min, until 10 minutes late, at which time you will receive a zero for the lab. See below for absence policy.

What To Bring To Lab:

- The .pdf files required for each lab, to be provided by me a few days before the lab.
- The iOLab device, which can be rented or purchased [here](#). This is required for each lab.
- In the lab, we will provide computers, but access to a Windows PC or Mac that you can use outside of the lab is advised, in the event that you must be absent from lab due to COVID-19 exposure. This is worth mentioning as something like a Chromebook is not a computer in the traditional sense, and is not capable of installing programs outside of those offered in the Google store. Additionally, the iOLab device requires a USB2.0 port. Let me know if you have questions or concerns regarding this.

Lab Schedule:

PHYS:1701:0021 (8:00 AM - 10:50 AM, T)

PHYS:1701:0023 (11:30 AM - 2:20 PM, T)

Aug 31, i0: iOLab Setup	Sep 7, i1: Intro to iOLab Measurements	Sep 14, i2: Constant Acceleration	Sep 28, i3: Newton's Laws I	Oct 5, i4 Newton's Laws II
Oct 12, i5: Collisions in 1D	Oct 26, i6: Rotational Motion	Nov 2, i7: Simple Harmonic Motion I	Nov 9, i8: Simple Harmonic Motion II	

Laboratory Organization:

1. Wash your hands with soap or use hand sanitizer station if a sink is not available. Find an open seat. No more than two students per table. Disinfect lab station with spray and towels provided.
2. Discuss procedure, physics, and iOLab apparatus
3. Perform lab and fill out worksheets
4. Upload completed lab on ICON in the appropriate dropbox

My primary purpose is to introduce the lab with all necessary background, and then be present to answer all possible questions, technical or physical, as you do the lab. Please, do not hesitate to ask me anything! Each lab contains: a pre-lab (which is to be done prior to the lab session), an experiment, and a series of analysis questions at the end.

We will be using the iOLab device this semester, so that it is possible to complete the labs outside of the scheduled meeting if need be. Attendance to the in-person session is normally expected, but if you suspect that you have been exposed to COVID-19 or are experiencing symptoms: you are not required to attend, and you may complete the lab at home with zero penalty.

Labs are to be uploaded on ICON by the end of the lab session. If absent from lab due to either suspected or confirmed exposure to COVID-19, you will normally have 24 hours from the end of the scheduled lab period to submit your worksheet. However, extensions will also be given in necessary situations—I will be very lenient and understanding.

Grading: Grading will be relatively lenient, but points can be easily lost from missing units or poorly-answered analysis questions. Make sure to spend a good amount of time on the analysis questions especially, giving thorough and complete answers that reference general physics principles. "Human error" is never an acceptable answer. Labs will be graded by the end of the week in which they are assigned.

**College of Liberal Arts and Sciences
Information for CLAS Undergraduates
Fall 2021**

ATTENDANCE AND CLASSROOM EXPECTATIONS

Students are responsible for attending class and for knowing an instructor's attendance policies, which vary by course and content area. All students are expected to attend class and to contribute to its learning environment in part by complying with University policies and directives regarding appropriate classroom behavior or other matters.

ABSENCES

Students are responsible for communicating with instructors as soon they know that an absence might occur or as soon as possible in the case of an illness or an unavoidable circumstance. Students can use the CLAS absence form to help communicate with instructors who will decide if the absence is excused or unexcused; the form is located on ICON within the top banner under "Student Tools." Delays by students in communication with an instructor could result in a forfeit of what otherwise might be an excused absence ([see here](#)).

ABSENCES: ILLNESS, UNAVOIDABLE CIRCUMSTANCES, AND UNIVERSITY SPONSORED ACTIVITIES

Students who are ill, in an unavoidable circumstance affecting academic work, or who miss class because of a University sponsored activity are allowed by UI policy to make up a missed exam. Documentation is required by the instructor except in the case of a brief illness. Students are responsible for communicating with instructors as soon as the absence is known ([see here](#)).

ABSENCES: HOLY DAYS

Reasonable accommodations are allowed for students whose religious holy days coincide with their classroom assignments, tests, and attendance if the student notifies the instructor in writing of any such religious Holy Day conflicts within the first days of the semester and no later than the third week. (See the UI Operations Manual, [here](#)).

ABSENCES: MILITARY SERVICE OBLIGATIONS

Students absent from class due to U.S. veteran or U.S. military service obligations (including military service-related medical appointments, military orders, and National Guard Service obligations) must be excused without penalty. Instructors must make reasonable accommodations to allow students to make-up exams or other work. Students must communicate with their instructors about the expected possibility of missing class as soon as possible. (For more information, see [here](#)).

ACADEMIC MISCONDUCT

All undergraduates enrolled in courses offered by CLAS have in essence agreed to the College's Code of Academic Honesty. Academic misconduct affects a student's grade and is reported to the College which applies an additional sanction, such as suspension. Outcomes about misconduct are communicated through UI email ([see here](#)).

ACADEMIC ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

UI is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as a mental health, attention, learning, vision, and a physical or health-related condition) through the Student Disability Services (SDS) office. The student is responsible for discussing specific accommodations with the instructor. Note that accommodations are not granted retroactively but from the time of the student's request to the instructor onward; additionally, accommodations must be requested at least two weeks in advance of the related assignment or exam ([see here](#)).

CLASS RECORDINGS: PRIVACY AND SHARING

Course lectures and discussions are sometimes recorded or live-streamed. These are only available to students registered for the course and the intellectual property of the faculty member. These materials may not be shared or reproduced without the explicit written consent of the instructors. Students may not share these recordings with those who are not enrolled in the course; likewise, students may not upload recordings to any other online environment. Doing so is a breach of the Code of Student Conduct and could be a violation of the Federal Education Rights and Privacy Act (FERPA); also see [here](#).

COMMUNICATION: UI EMAIL

Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community ([Operations Manual, III.15.2](#)). Emails should be respectful and brief, with complex matters addressed during the instructor's drop-in hours, for example. Faculty are not expected to answer email after business hours or during the weekends.

COMPLAINTS ABOUT ACADEMIC MATTERS

Students with a complaint about a grade or a related academic issue should first visit with the instructor and then with the course supervisor (if one is assigned), and next with the Chair of the department or program offering the course. If not resolved, students may bring their concerns to the College of Liberal Arts and Sciences: [link here](#).

FINAL EXAMINATION POLICIES

The final exam schedule is published during the fifth week of the fall and spring semesters or on the first day of summer classes; students are responsible for knowing the date, time, and place of their final exams. Students should not make travel plans until knowing this information. A student with exams scheduled on the same day and time or who have more than two final exams on the same day should visit this page for how to resolve these problems by the given deadline: [link](#). No exams may be scheduled the week before finals; some exception, however, have been made for labs, language courses, and off-cycle courses ([see here](#)).

FREE SPEECH AND EXPRESSION

The University of Iowa supports and upholds the First Amendment protection of freedom of speech and the principles of academic and artistic freedom. We are committed to open inquiry, vigorous debate, and creative expression inside and outside of the classroom. Visit Free Speech at Iowa for more information on the University's policies on free speech and academic freedom ([see here](#)).

HOME OF THE COURSE

The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the course's add and drop deadlines, the "second-grade only" option (SG0), and other undergraduate policies and procedures. Different UI colleges may have other policies or deadlines. See [here](#). Questions? Contact CLAS at clasps@uiowa.edu or 319-335-2633.

MENTAL HEALTH

Students are encouraged to seek help as a preventive measure or if feeling stressed or overwhelmed. Students should talk to their instructors for guidance with specific class-related concerns and are encouraged to contact University Counseling Service (UCS) at 319-335-7294 during regular business hours to schedule an appointment. USC offers group and individual therapy as well as counseling for couples about relationships while making referrals to other resources ([link](#)). Student Health can also address related concerns ([link here](#)). These visits are free to students. After hours, students are encouraged to call the Johnson County Community Crisis Line at (319) 351-0140 or dial 911 in an emergency.

NONDISCRIMINATION IN THE CLASSROOM

The University of Iowa is committed to making the classroom a respectful and inclusive space for people of all gender, sexual, racial, religious, and other identities. Toward this goal, students are invited in MyUI to optionally share the names and pronouns they would like their instructors and advisors to use to address them. The University of Iowa prohibits discrimination and harassment against individuals based on race, class, gender, sexual orientation, national origin, and other identity categories indicated by the University's Human Rights policy. Contact the Office of Equal Opportunity and Diversity [here](#).

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 are expected to conduct themselves in a manner that maintains an environment free from sexual harassment and sexual misconduct. Those experiencing sexual harassment are strongly encouraged to report the incidents and to seek help ([link here](#)).