

PHYS 496 Syllabus, General Course Information, Fall 2022

Course Objectives

The purpose of this course is to teach you valuable writing, presentation, teamwork, leadership, and organizational skills that will better prepare you for a successful career in science or technology. You will learn good communications practices and standard conventions for physics talks, abstracts, journal articles, and figures, and you'll learn how to communicate your science to general audiences as well as to specialists. You will be exposed to forefront physics research and the variety of career options that are available for physics majors.

Classes

The class will meet on Fridays, 2:00–4:50 PM in Room 158 Loomis Laboratory of Physics. If COVID-19 conditions warrant, the course may have to be moved online at some future time. We must follow the campus policies for in-person teaching. If virtual classes become necessary, we will meet on Zoom at the regular Friday class time. Monitor your University of Illinois (UIUC) email for announcements.

Class attendance is mandatory, and unexcused absences will result in a loss of points for the “participation” portion of your final grade. If you are unable to attend class, send an [email](#) to the instructors *prior* to class if at all possible, explaining the reason for your absence. We will work with you on a plan for making up the work. Class lectures will be recorded automatically, and the recordings will be posted to MediaSpace for asynchronous review.

Course Website

The [course syllabus](#), [assignment summary](#), [written instructions for assignments](#), [announcements](#), [lecture notes](#), and links to [useful external resources](#) are posted on the [course website](#). Check it frequently.

Instructors

	Office Hours	Contact
Taylor L. Hughes	By appointment	email
Celia M. Elliott	By appointment on Zoom	email
Jessica Raley	By appointment	email
Oleg Dubinkin	By appointment	email

Course Components

The course will consist of in-class writing practice, lectures, formal and extemporaneous student presentations and in-class activities, and written homework assignments and colloquium reports. No formal exams will be given, and no textbook is required.

Classes will be conducted in person, beginning on August 26 and may be recorded for asynchronous viewing on the PHYS 496 channel on [MediaSpace](#), depending on class needs.

An integral part of the class is “[Writing Workshop](#)” (WW), a series of in-class activities designed to improve your writing skills by analyzing and editing examples taken from published physics papers. The examples have been chosen to showcase specific, common scientific-writing flaws. You must use a device equipped with MS Word during each class that has a WW scheduled to

complete the exercises. If you do not already have Word installed on your computer, you can get Microsoft Office 365 free-of-charge from the [UI Webstore](#). Missed exercises **may not be made up** unless prior arrangements are made with [Jessica Raley](#).

The [homework assignments](#) consist of specific writing tasks, including written evaluations of presentations and papers, abstracts, outlines, figure captions, and articles for a general audience. You will also learn how to create effective figures and captions to illustrate your written work.

PHYS 496 students are also required to *attend at least two departmental colloquia* (in-person or virtual) during the semester and *prepare a short written analysis* of each, using the “[Colloquium Report](#)” template. Each colloquium report is worth 50 points and is eligible for rewrite points.

Presentations will include a formal short individual presentation, a team journal-club presentation, and informal individual and group presentations as part of in-class activities.

Refer to the [grading matrix](#) and written [assignments](#) for additional details and deadlines.

Textbook

No textbook is required for this course. [Lecture notes](#) are posted on the course website after each class. Some scientific papers published in the peer-reviewed literature will be assigned; all are available free of charge online through the University’s library subscription.

Grading

Timely submission of written assignments is required. You will be given feedback on both the physics and the technical writing components of your assignments, and each will contribute to your final grade. A [grading matrix](#) that shows course components, due dates, and the points assigned to each is posted on the course website.

Each WW exercise will be reviewed, and points awarded for completing it. The WW exercises are graded binarily; if you show up and make a good-faith effort to complete the exercise and participate in class, you will receive full points, even if you don’t have time to finish the exercise. If you don’t, you will receive 0 points for that exercise. Missed WW exercises may not be made up, unless prior arrangements are made for an excused absence.

Each homework assignment will be scored, and points allotted. The total points for each assignment are provided in the written instructions for that assignment and on the [grading matrix](#).

To give you an incentive to complete your assignments on time and to revise your work, you will be able to earn additional points for rewrites on some assignments, *provided the initial draft is submitted by the posted due date and time*. Late submissions will be ineligible for “rewrite” points. You will be able to earn additional points for each eligible revision, up to 100 percent of the original points assigned to that exercise.

You may use the student [gradebook](#) for PHYS 496 available at [my.physics.illinois.edu](#) to check on your grades at any time and to confirm that all your submitted assignments have been graded. Incremental rewrite points will be added as they are earned to the total points awarded for each assignment in the gradebook.

Final letter grades will be determined by the total points you earn, the distribution of point totals among the whole class, and your class rank. Do not worry about grades; concentrate on learning and improving.

Academic Integrity

The instructors for PHYS 496 take academic integrity very seriously, and we expect you to do so as well. Progress in science is not possible unless we can rely on its practitioners to be scrupulously honest in all their activities. Dishonesty in any form—cheating, plagiarism, representing others' work as your own individual work, submitting work you did for another class as original work for this class, or fabricating excuses for missed work—will not be tolerated.

Academic dishonesty may result in a failing grade for the assignment and will be reported to the Faculty Academic Integrity Reporting (FAIR) system. Repeated instances of academic dishonesty may result in a failing grade for the course. Every student is expected to review and abide by the university's [Academic Integrity Policy](#). Ignorance is not an excuse for *any* academic dishonesty. It is your responsibility to read this policy to avoid any misunderstanding and to bring questions to the course instructors.

If you have *any* question about proper citation of sources, the reuse of materials (including your own) in a homework assignment, or the limits of work that can be done collaboratively and presented as your own, *please* consult us *before* you do something that could have serious adverse consequences for your academic career. We will report instances of academic misconduct to the appropriate University authorities.

Part of academic integrity also involves the proper use of course materials. Do not share graded course materials with others outside of PHYS 496 or repost them to unscrupulous internet sites that promote cheating.

Assignments

Assignments include both written work, team activities, and oral presentations. Detailed instructions for each assignment, along with its due date, are [posted on the website](#). Most assignments are due by 9:00 PM on the designated due date, but *check the written homework instructions* for due dates and times. **Assignments turned in after the deadline date and time will be penalized by a deduction of up to 10% of the total points, if submitted within 48 hours of the deadline. Assignments submitted more than 48 hours late will be increasingly penalized. Furthermore, late assignments will not be eligible for rewrite points.**

Deadline extensions will not be granted except for extraordinary circumstances (transient global amnesia; severe, sustained chest pains; uncontrolled bleeding from a major artery...). Get *something* on paper and get it turned in by the deadline.

All assignments are to be deposited in the secure PHYS 496 portal on [my.physics](#) by the deadline noted on the assignment page. A [summary](#) of the homework assignments, including due dates, eligibility for rewrites, and points assigned, is posted on the course website.

Don't forget to put your name at the top of the page for submitted assignments.

Revisions of Previously Submitted Assignments: If you are submitting a revised assignment for regrading, please prominently identify it as a revision on the top of the page, e.g., "Homework #6—Rev. 1" and [email it to Celia](#). Subsequent revisions should be labeled in consecutive numerical order. Keep *all* files (originals and revisions) for your records.

For your written assignments, you may wish to consult the University's Center for Writing Studies [Writers Workshop](#), which provides free, one-on-one help to all UIUC students. The Writers Work-

shop's mission is to support the UIUC community by providing free writing assistance for students, faculty, and staff from all disciplines and at all stages of the writing process. Whether you're working on a course paper, senior capstone, personal statement, group writing project, thesis or dissertation, or manuscript for publication, their consultants are available to help. Visit them at any stage of the writing process: brainstorming, organizing ideas, polishing final drafts, citing sources, and more.

The Workshop offers online appointments, in-person appointments, and evening drop-in hours. The Workshop also sponsors writing groups and provides presentations about academic writing skills. Find more information at writersworkshop.illinois.edu or learn more about their [policies](#) and [services](#). You can also find them on Facebook (Writers Workshop at Illinois), Twitter (@WorkshopIL), and Instagram (UIUC Writers Workshop).

Peer Review

One of the homework assignments will be peer reviewed. You will learn about the important role peer review plays in the advance and integrity of science, how the process works, and how to write an objective, useful review.

Physics Colloquium

[Colloquium](#) is held at 4:00 pm on Wednesdays. Most colloquia will be held in Room 141 Loomis, and some will be held virtually on Zoom. Click on the title of each colloquium in the [Physics calendar](#) to see an abstract, details about the speaker, and the Zoom link and password for virtual lectures. You can also sign up at the bottom of the calendar page to receive automatic email notifications of weekly Physics events, including colloquia. If you have a class conflict and cannot attend the Physics colloquia, consult Professor Hughes or Celia for suggestions on alternative arrangements.

Completed colloquium reports should be uploaded to the my.physics [course-upload portal](#). Note that colloquium reports and any revisions for additional credit must be [submitted by the posted deadlines](#) to receive full credit.

Office Hours

Office hours are posted for each instructor at the beginning of this document and will be available in person or via Zoom. Please send us an email to schedule a specific appointment time.

Email

The instructors will communicate with you about the course via email to your *University of Illinois* email account; check it regularly! If you send email to the instructors, please put **PHYS 496** in the subject line of each message. We do not use the "threading" feature of some email programs, so don't omit the subject line and be sure to include your full name in your message.

COVID-19 Policies

Following University policy, all students are required to engage in appropriate behavior to protect the health and safety of the community. Students are also required to follow the campus [COVID-19 protocols](#).

Students who feel ill ***must not come to class***. In addition, students who test positive for COVID-19 or have had an exposure that requires testing and/or quarantine ***must not attend class***.

Students who fail to abide by these rules will first be asked to comply; if they refuse, they will be required to leave the classroom immediately. If a student is asked to leave the classroom, the non-compliant student will be judged to have an unexcused absence and reported to the Office for Student Conflict Resolution for disciplinary action. Accumulation of non-compliance complaints against a student may result in dismissal from the University.

Face Coverings—At this time (August 2022), face coverings are not required in Loomis Laboratory. You may, of course, wear a face covering if you choose to.

Disability Access and Accommodations

The University of Illinois is committed to making higher education accessible to all students. To obtain disability-related academic adjustments and auxiliary aids, you must contact the Disability Resources and Educational Services (DRES) and notify one of the instructors as soon as possible. To contact DRES, you may call (217) 333-4603, email disability@illinois.edu, or go to the [DRES website](#). Their staff is available Monday–Friday from 8 a.m. to 5 p.m.

To obtain disability-related accommodations and services through DRES, you may apply online via the “Application for DRES Services” tab on their website and then upload your documentation or submit your documentation through mail or fax. The DRES secure fax number is (217) 244-0014 and the mailing address is 1207 South Oak Street, Champaign, IL 61820.

If you are concerned that you may have a disability-related condition that is adversely affecting your academic progress, confidential academic screening appointments are available on campus to identify a previously undiagnosed disability. You can arrange for such testing by visiting the [DRES website](#).

Religious Observances

Illinois law requires the University to reasonably accommodate its students’ religious beliefs, observances, and practices in regard to class attendance and the scheduling of examinations and work requirements. You should examine the [class schedule](#) now for potential conflicts between course deadlines and any of your religious observances. If a conflict exists, you should notify one of the instructors of the conflict within the first two weeks of classes and follow the [University’s procedures](#) to request appropriate accommodations.

Sexual Misconduct Reporting Obligation

The University of Illinois is committed to combating sexual misconduct. Faculty and staff members are required to report any instances of sexual misconduct to the University’s Title IX Office. In turn, an individual with the Title IX Office will provide information about rights and options, including accommodations, support services, the campus disciplinary process, and law enforcement options.

A list of the designated University employees who, as counselors, confidential advisers, and medical professionals, do not have this reporting responsibility and can maintain confidentiality, can be found here: wecare.illinois.edu/resources/students/#confidential. Other information about Title IX resources and reporting is available at my.physics.illinois.edu.

Family Educational Rights and Privacy Act (FERPA)

If you have suppressed your directory information pursuant to Family Educational Rights and Privacy Act (FERPA), you should self-identify to the instructors to ensure protection of the privacy

of your attendance in this course. See <https://registrar.illinois.edu/academic-records/ferpa/> for more information on FERPA.

Bias, Discrimination, and Ill Treatment

The University of Illinois Urbana-Champaign is committed to the most fundamental principles of academic freedom, equality of opportunity, and respect for human dignity. We prioritize fostering an inclusive campus culture that allows people of all backgrounds to exchange ideas and learn in a positive, supportive environment. Acts or statements of racism, sexism, ableism, homophobia, transphobia, xenophobia, anti-Semitism, Islamophobia, anti-Asian bias, and other discriminatory or hateful behaviors will not be tolerated. If you experience any of these things, please inform the instructors immediately.

The Bias Assessment and Response Team (BART) has been an important and visible mechanism to help students, faculty, and staff to inform the university when they encounter negative behaviors that adversely affect their campus experience. Reports of discrimination or hateful behavior or speech can also be submitted at <https://diversity.illinois.edu/diversity-campus-culture/belonging-resources/>; staff from the Office of the Vice Chancellor for Diversity, Equity, and Inclusion will coordinate response to the reports.

Class Administration

Any concerns, questions, or comments about the administration of the course should be directed to [Professor Hughes](#).

One final thought...

We are all facing extra challenges and uncertainty this semester that are disrupting our schedules, worrying our minds, and stressing our coping mechanisms. Be as patient as you can, plan ahead as well as you are able, be flexible if you must, ask for help if you need it without hesitation or embarrassment, and *look out for one another*. We will do our best to make sure that PHYS 496—Fall 2022 edition is the great class that you've heard about. And thanks for reading all the way to the end!

Send questions about this syllabus to [Celia Elliott](#).

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Run > Hide > Fight

Emergencies can happen anywhere and at any time. It is important that we take a minute to prepare for a situation in which our safety or even our lives could depend on our ability to react quickly. When we're faced with almost any kind of emergency – like severe weather or if someone is trying to hurt you – we have three options: Run, hide or fight.



Run

Leaving the area quickly is the best option if it is safe to do so.

- ▶ Take time now to learn the different ways to leave your building.
- ▶ Leave personal items behind.
- ▶ Assist those who need help, but consider whether doing so puts yourself at risk.
- ▶ Alert authorities of the emergency when it is safe to do so.



Hide

When you can't or don't want to run, take shelter indoors.

- ▶ Take time now to learn different ways to seek shelter in your building.
- ▶ If severe weather is imminent, go to the nearest indoor storm refuge area.
- ▶ If someone is trying to hurt you and you can't evacuate, get to a place where you can't be seen, lock or barricade your area if possible, silence your phone, don't make any noise and don't come out until you receive an Illini-Alert indicating it is safe to do so.



Fight

As a last resort, you may need to fight to increase your chances of survival.

- ▶ Think about what kind of common items are in your area which you can use to defend yourself.
- ▶ Team up with others to fight if the situation allows.
- ▶ Mentally prepare yourself – you may be in a fight for your life.

Please be aware of people with disabilities who may need additional assistance in emergency situations.

Other resources

- ▶ police.illinois.edu/safe for more information on how to prepare for emergencies, including how to run, hide or fight and building floor plans that can show you safe areas.
- ▶ emergency.illinois.edu to sign up for Illini-Alert text messages.
- ▶ **Follow the University of Illinois Police Department** on Twitter and Facebook to get regular updates about campus safety.