

PHYS 2425.01HE University Physics I

COURSE SYLLABUS: Fall 2026



INSTRUCTOR INFORMATION

Instructor: Dr. Billy Quarles, Assistant Professor

Office Location: Room 145, McFarland Science Building

Office Hours: **MWF 3-4pm; TR 11am-12pm; by appointment**

University Email Address: Billy.Quarles@etamu.edu

Preferred Form of Communication: **email or Slack**

Communication Response Time: Before the end of the following business day

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required

University Physics Vol 1, OpenStax (*Free*)

- Publisher website: <https://openstax.org/details/books/university-physics-volume-1>

PHYS 2425 LAB BOOK, Van Griner

- Available in Campus Bookstore for \$31.65

Software Required

- Slack (*Free*)
- Google Colab (*Free*)
- NotebookLM (*Free*)

Course Description

Hours: 4

Calculus based physics course in mechanics for science, mathematics and engineering students. Prerequisites: [MATH 2413](#) with a minimum grade of C or concurrent enrollment.

Student Learning Outcomes

1. Students will be able to use momentum to describe a physical situation and calculate the motion of an object using these quantities.
2. Students will be able to represent the forces on an object in a physical situation and calculate the resulting motion using Newton's Laws.
3. Students will be able to use energy to describe a physical situation and calculate the motion of an object using these quantities.
4. Students will be able to precisely explain and calculate motion using the concepts of position, velocity, and acceleration.

5. Students will translate physical laws into computational models, generate simulations, and interpret the results to analyze complex mechanical systems.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

You will need to be able to access myLeo Online and be able to learn how to use it. You should also be able to read PDF documents. You should be able to create either Microsoft Word documents (.docx) or plain text files. You must be familiar with Internet usage and safe browsing. You need to be able to watch YouTube videos on a computer.

How This Course Is Organized

This course is organized for you to complete a chapter of material over ~2-3 hours per week. You should attend the lectures, and check the course page on myLeo Online often to see which chapters/sections we will be covering each week and/or the assignments that are coming due.

What Should You Do First?

After attending class and reading this syllabus, you should

- proceed to the course page on myLeo Online and familiarize yourself with the resources.
- order the course materials if you haven't yet.
- join the Slack Workspace.

Slack Workspace

I have set up a Slack workspace for this class. This service lets you get announcements from Dr. Quarles and send him messages. Slack is similar to Discord, but it is often used in a more professional setting. I urge you to use this service, where you can have 1:1 and group messaging. The invite link to the Slack Workspace is available on myLeo Online.

Slack is free, where your messages are only visible for 90 days. Slack is private; only Dr. Quarles will see your **direct** messages. Comments on the public channels are visible to everyone, where you can reply to comments as a thread (*please use threads*). **The Slack channels are a place for communication and collaboration, not mischief.** This will also be a place for me to post random things happening in astronomy that you may find interesting.

Instructional Methods

Participation & Lab Exercises

Active participation is a required component of **PHYS 2425**, which includes in-class group work, lab exercises, and extended problem-solving sessions. Class time will be devoted primarily to structured, collaborative problem solving rather than passive note-taking.

During each class meeting, students will work through **4–7 practice problems** over approximately **1.5 hours**. These problems are designed to reinforce core physics concepts while developing problem-solving, communication, and verification skills.

Group Structure and Roles: Students will work in **assigned groups of four**, with each student assigned a specific role for the day.

- **Group leader** — responsible for guiding discussion, developing the solution, and keeping the group focused on the task.
- **Scribe** — responsible for producing the written solution during class by drafting the group's work in a **Jupyter notebook** using Google Colab.
- **Proofer** — assists in developing the solution and checks the final work for accuracy and clarity.
- **Submitter** — assists with the solution and is responsible for submitting the final files to **D2L**.

Groups and roles will rotate monthly so that all students gain experience in each role multiple times throughout the semester. *Rotating group roles ensure that each student develops leadership, collaboration, and communication skills while solving complex physics problems.*

Required Structure of the Write-Up: Each problem solution must follow the structure demonstrated in the provided example problems. This includes a restatement of the problem, a description of the overall strategy, a narrative explanation of the mathematical solution (not equations alone), a conclusion summarizing the final answer and its physical meaning, and a computational verification using Python (such as a short calculation or plot). A template Jupyter notebook will be provided and must be used for all submissions.

Submission Requirements: The final version of the in-class problems is due by 11:59 PM on the same day as the class meeting. Submissions must include both the ipynb file and a PDF export of the notebook. Only one submission per group is required.

Grading: Participation grades are primarily based on **completion, teamwork, and formatting**, with the expectation that students will *improve* over the course of the semester. The resulting PDFs are also intended to function as a high-quality study resource when preparing for exams.

Lab exercises: The course includes **7 in-class laboratory exercises** and **2 extended problem-solving sessions**. These activities are completed during class time and are designed to reinforce key physics concepts through hands-on investigation and structured application. Completion and meaningful engagement in these exercises and sessions contribute directly to the Participation grade. Because these activities rely on in-class work, they cannot be made up outside of class except in documented, instructor-approved circumstances.

Attendance Policy

Regular attendance is **mandatory** in PHYS 2425. Because participation credit is earned through in-class group work, students who are not present cannot earn participation credit

for that day. Attendance will be recorded at each class meeting, and students who arrive late or leave early may receive partial or no credit for that day's participation.

Excused absences are limited to documented, extenuating circumstances such as medical emergencies, death in the family, or official university obligations. Documentation must be provided promptly and excused absences are granted at the instructor's discretion. Students who miss class for any reason are not eligible to earn participation credit for that day, even if they obtain notes or files from classmates.

Unexcused absences result in a **zero for participation** for that class meeting. Excessive absences will significantly impact the participation portion of the final grade. This course is built around active, collaborative problem solving, and consistent attendance is essential both for individual learning and for the success of the group.

Discussion

Each week you will complete three discussion posts that will have the following themes:

1. **Ask your peers a question:** In this post, you will ask a question and reply to another student's question with constructive criticism.
2. **Answer an in-depth concept question:** In this post you will choose 1 topic question to answer, where you will post your answer and critique the response of your peers.
3. **Ask your instructor a question:** In this post, you will have an opportunity to ask the instructor any question you have concerning a topic within the unit.

The post will be evaluated using the following rubric:

Category	Points	Description
Initial Post	4	Clearly explains course concepts with original reasoning or examples.
Peer Reply	3	Responds meaningfully to a classmate's post with a question, clarification, or insight.
Effort & Clarity	2	Posts are well-written, organized, and show thoughtful effort.
Deadline	1	Initial post submitted 3 days early so others have a chance to reply. Ex., due date Jan 20; sub date Jan 17.

Discussion Drop Policy: To account for emergencies or technical difficulties, your **two lowest Discussion scores** will be automatically dropped from your final grade calculation. This happens automatically for all students.

Further details concerning the criteria for each grading category are available for review on myLeo Online. **AI Use Policy:** Posts must reflect your own thinking. Content generated entirely by AI (e.g., ChatGPT) will earn **zero credit** unless it is clearly revised, meaningfully expanded, and clearly documented.

Exams

Schedule & Format: There will be four non-cumulative exams and one optional, comprehensive final exam. While exams focus on material covered since the previous test, the interconnected nature of physics means earlier concepts may still apply.

Exam Drop Policy: The final exam is optional. If you choose to take it, the score will automatically replace your **single lowest regular exam score**. This is the only remedy for a missed or low-scoring exam. There is no makeup for the final exam itself.

Makeup Exams: Makeup exams are only for documented, extenuating emergencies (e.g., medical crisis, death in the family). You must email me with official documentation to be considered. Do everything in your power to take exams as scheduled.

Academic Integrity: You must work on all exams alone. Communication or collaboration of any kind (e.g., with classmates, via texting, Zoom, ChatGPT, etc.) is strictly forbidden and constitutes academic dishonesty. Violations will result in a zero on the exam and further disciplinary action.

Homework Assignments

Homework is assigned weekly through myLeo Online, consists of about six **questions per assignment**, and must be completed **individually**. Each homework assignment is designed to reinforce the problem-solving skills practiced during in-class activities. While the structure and expectations mirror the in-class group work, homework submissions are **not collaborative**, and each student is responsible for submitting their own work.

Homework assignments are structured to **develop deeper analytical reasoning** rather than simply producing final numerical answers. Each solution requires students to **explain the physical model, describe the mathematical reasoning, and verify results using a short Python calculation or visualization**. This structure encourages students to translate theoretical ideas into computational representations and to reflect on how physics concepts apply to real systems.

Submission requirements: All homework must be completed using the provided Jupyter notebook template. Submissions must follow the same structured format used for in-class problems, including a restatement of the problem, a description of the solution strategy, a narrative explanation of the mathematical solution (not equations alone), a concluding statement interpreting the final answer, and a commented Python example that verifies the result computationally. Submissions that provide only final answers or minimal mathematical steps without narrative explanation are not acceptable.

Grading and Revisions: Homework assignments are graded primarily on presentation and accuracy. Clear organization, complete explanations, appropriate formatting, and correct reasoning are expected. Overly brief or incomplete submissions that do not meet these expectations will receive a zero initially. If a submission is revised to fully comply

with the required format and content **within one week of the original due date**, the grade may be updated accordingly. Revisions submitted more than one week after the due date will not be accepted, and the zero will remain.

Submission Integrity: Each student must submit **original work**. Homework submissions that are largely verbatim copies of another student's work will receive **zero credit** and may be referred for academic integrity review. While students may discuss general problem-solving strategies with classmates, the written solutions, explanations, and code must reflect the student's own understanding and effort.

- **The following are considered cheating and will not be tolerated.** Directly copying text from a website (e.g., Quizlet) or other printed source, obtaining copies of solutions to homework questions (whether from past students or other sources), directly copying another student's work, etc.

Assignment Drop Policy: To account for emergencies or technical difficulties, your **two lowest Homework scores** will be automatically dropped from your final grade calculation. This happens automatically for all students.

Use of Homework for Studying: Homework responses are intended to function as a **study guide** for exams. *The homework assignments are more easily completed if you work on 1-2 questions per day (~30 min) and do not wait until the due date.*

Use of AI on Homework: The use of AI tools is **restricted**. AI tools may be used for limited support, such as clarifying syntax, checking code functionality, or identifying minor errors, but they may not be used to generate full solutions, explanations, or narratives. **Any use of AI tools must be documented within the notebook.**

Undocumented or inappropriate use of AI, including submitting AI-generated solutions as original work, constitutes academic dishonesty and will result in a zero for the assignment. *Students are fully responsible for the content of their submissions, regardless of whether AI tools were used in any capacity.*

Honors Learning Experience

Students enrolled in the Honors section will complete an additional integrative learning experience centered on computational modeling of physical systems. Working in small teams, students will develop a numerical model of a mechanical system using Python and apply Newton's Laws to analyze the system under realistic conditions.

The goal of this project is to move beyond solving isolated textbook problems and instead model how physical systems behave when multiple variables interact. Students will define assumptions, translate physical laws into computational algorithms, generate simulations, and interpret results through graphical visualization. Throughout the

semester, teams will refine their models by exploring how outcomes depend on parameters such as mass, friction, drag forces, or initial conditions. Students will present their results during the final week of the course in a short technical presentation.

This project supports the Honors College learning outcome “Create,” which emphasizes the ability to synthesize ideas in original ways to solve complex problems. Students demonstrate this outcome by constructing computational models, testing alternative approaches, and communicating their findings through simulation results and presentations.

Student Responsibilities or Tips for Success in the Course

Students who do well in this course share most of the following common habits:

- **Working on the course a little bit every day.**
- Checking myLeo often for announcements and assignments
- **Preview Discussion and Homework questions before attending the lectures to guide your note-taking.**
- Completing all assignments on time
- Asking for help and advice early in the semester
- Taking responsibility for their own grade.

GRADING

A letter grade is determined only at the end of the term. Course grades will be based on quizzes, homework assignments, and exams. Grades are based on a weighted system.

Grading is on an absolute scale with no competition. If you all earn an A, you all get an A. I may “curve” grades for specific assignments at my discretion; your percentage earned will never go down if I apply such a curve. Your current grades are available through the gradebook on myLeo Online – look for “**Final Calculated Grade.**”

Category	Weights
Discussion	10%
Participation & Lab	15%
Homework	15%
Exams I-IV	60%
Final Exam	15%*

*Final is cumulative and replaces lowest exam grade

Grading Scale	
A	90 -- 100%
B	80 -- 89%
C	70 -- 79%
D	60 -- 69%
F	<60%

Overall Grade Calculation Example

Category	Score	Weight	Points
Discussion	90	0.10	9.0
Participation	90	0.15	13.5
Homework	85	0.15	12.8
Exam I	65	0.15	9.8
Exam II	75	0.15	11.3
Exam III	0	0.15	0
Exam IV	88	0.15	13.2
Final Exam	90	0.15	13.5
Overall Grade			83.1

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

[LMS Requirements](#)

[LMS Browser Support](#)

[Zoom Video Conferencing Tool](#)

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here: <https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

Email: I can be reached by email at Billy.Quarles@etamu.edu. It may take me up to 24 hours to send you a response (48 hours on the weekend or holidays).

Slack Direct Message: I can be reached via Slack Workspace. See above for details.

Office Hours: Office hours are available in both face-to-face and virtual formats. Student hours are times that I set aside when I promise to be in my office so that you can come by and talk to me, no appointment needed. During student hours, you can ask questions about the course material, ask about homework, see your current grade, or ask other questions about the class or astronomy in general. **Note: you're paying to understand the material, get your money's worth.**

If you want to talk but cannot come during office hours, please **email or DM me on Slack** to schedule an appointment. We can schedule a time for you to speak to me face-to-face or by video conferencing.

You may feel free to stop by my office any time my door is open, but if you do not have an appointment and if it is not my scheduled student hours, please understand if I'm not free to talk at that instant.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Academic integrity

A major goal of this course and most other university courses is for you to learn and appreciate subject material. Academic dishonesty ("cheating") actively prevents you from achieving this goal. Academic dishonesty is taken seriously by the University and by me and **will not be tolerated**. (See the [ETAMU Code of Student Conduct](#) and the ETAMU Procedures A 13.04, 13.12, 13.31, and 13.32.)

This conduct is not only considered wrong in this course and at this University, but also in the real world. Engaging in these activities will get you fired from a job and prevent you from getting another job.

Unethical student conduct includes:

- **Plagiarism**, or copying the words of others with the intent of making it look like your own. Whether you use someone else's phrase word for word, or whether you try and change a few words, or even if you just borrow someone else's original idea and don't give them credit, that's unethical. Use your own words whenever possible, give credit to wherever you got an idea, and put direct quotes inside quotation marks. *Your answers should not consist of only direct quotes.*
- **Cheating** involves trying to trick me or others into thinking you did work that you really didn't do, or into thinking you know what you really don't know. This can include stealing exams, changing your answers on a graded exam or assignment and claiming it was graded wrongly, putting your name on someone else's homework, and so on.
- **Searching the Internet for homework solutions and entering answers you find is considered cheating.** Searching the Internet for help on a topic is okay. For example, suppose a question asks, "Describe the life cycle of a star that has the same mass as the sun." Typing that phrase into Google and cutting and pasting the text in the answer box is considered cheating. Typing "star life cycles" into Google, reading a few web pages, and summarizing the information in your own words is not cheating.
 - The use of generative AI, such as ChatGPT, is only permitted when an assignment explicitly asks you to use it.
- **Borrowing another person's work** is considered cheating. "Borrowing" includes looking at someone's submitted homework, graded exams, screen shots, etc. with

or without their permission. “Another person” includes not only present and past students, but also anyone else who might have access to solutions.

- **Collusion** is working with another person to cheat. This can include copying someone else’s answers to an exam or assignment, doing work for another student, buying or otherwise obtaining homework/exam solutions from any source online or off-line, or any other instance of multiple people engaging in some form of cheating or dishonesty. Working with other students on an assignment is fine as long as **everyone contributes** and **each student does their own work**.
- **Any other activity that, to a reasonable person, looks wrong.** If you have any doubt whatsoever whether a certain action is considered dishonest, please ask me *before* engaging in the activity. There is no need to be embarrassed about asking, and I won’t penalize you for asking!

If you engage in academic dishonesty during any graded activity, you will receive no credit for that activity. More than one instance of dishonesty by a student will result in automatic failure of the course and referral of the student for disciplinary action.

For further information, search the East Texas A&M University website for “academic integrity policy”. myLeo Online provides me with tools that check for common forms of online cheating, and collusion. These include, but aren’t limited to: time stamps, location stamps, and automated comparison of essay answers. *I will use these tools.*

- **Administrative Withdrawal:** Although I have the right to drop you for excessive absences (called “administrative withdrawal”), I won’t do so. You have the right to get an F if you decide to quit working but don’t drop the course.
- **Assignment Policy and Due Dates:** Assignments and due dates will be posted in the myLeo Online course calendar for each assignment. Submission requirements for each assignment will also be given on that page.
- **Dropping the Course:** You may drop this course by logging into your myLeo account and clicking on the hyperlink labeled ‘Drop a class’ from among the choices found under the myLeo section of the Web page.
- **Incompletes:** I only offer incompletes in *extraordinary* circumstances. Any student interested in an incomplete should contact me as soon as possible after the situation arises, and should keep in mind that I am not required to give you an incomplete. You should also know that you only have access to a myLeo Online course for two weeks following the final day of term.
- **Late Work:** Late assignments are **penalized 10% per day** if turned in after the deadline. ***After 2 days, late assignments will receive a zero.*** Exams may only be taken late by arrangement and permission with the instructor, otherwise missed exams will receive a zero. The instructor has final discretion on whether to give a make-up exam. All work must be finished by the end of the day on the last day of classes.
- **Technical Issues:** Personal computer problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use

of a computer at a friend's home, the local library, office service companies, many restaurants, Interstate Rest Areas, etc.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: <https://www.britannica.com/topic/netiquette>

ETAMU Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedures 13.99.99.R0.01](#)

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

Graduate Students Academic Integrity Policy and Form

[Graduate Student Academic Dishonesty Form](#)

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@etamu.edu

Website: [Student Disability Services](#)

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M University Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

AI use policy

[Draft 2, May 25, 2023]

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism). Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty

East Texas A&M University Supports Students' Mental Health

The Counseling Center at East Texas A&M University, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145, or www.etamu.edu/counsel for more information regarding Counseling Center events and confidential services.

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



COURSE OUTLINE / CALENDAR

The course will cover many of the topics outlined below. Homework and discussion posts are due weekly. The dates below may change, so pay attention to announcements for final due dates. See the Google Calendar for exact dates. The week number and days you should spend give you a guide for pacing the course. **Note that you should allocate time each day to complete the homework by the given deadline on myLeo Online.**

Week	Chapters Covered	Primary Topics	Labs / Problem Solving / Exams
1	1, 2 (intro)	Units & Measurement; Vectors	Regular group problem solving
2	2	Vectors	Vector Lab; Vector Problem Lab (6 questions)
3	3	1D kinematics	Regular group problem solving
4	4	2D kinematics, projectile motion	Projectile Motion Lab
5	5	Newton's Laws	Newton's Laws Lab; Exam 1 (Ch 1–4), Sept 21
6	6	Applications of Newton's Laws	Newton's Laws Problem Lab (6 questions)
7	7, 8 (intro)	Work & Energy	Friction Lab (Fall Break)
8	8 (wrap), 9	Work & Energy, Momentum	Exam 2 (Ch 5–8), Oct 14
9	9,10	Momentum, Rotation	Linear Momentum Lab
10	10, 11	Rotation, Angular Momentum	Torque Lab
11	11, 12	Angular Momentum, Statics	Exam 3 (9–11), Nov 4
12	12, 13	Statics, Gravitation	Gravitational Force Lab
13	14	Fluid Statics, Dynamics	Regular group problem solving
14	-	Thanksgiving	No Class
15	14	Fluid flow, Presentations	Exam 4 (Ch 12–14), Dec 2
16		Final Exam (Dec 9 @ 8am)	

Important Class Dates:

- Aug 20: First Day of Class
- Sept 7: **No Class** (Labor Day)
- Oct 9: **No Class** (Fall Break)
- Dec 4: Last day to complete any extra credit
- Dec 4: **Last Day of Class**