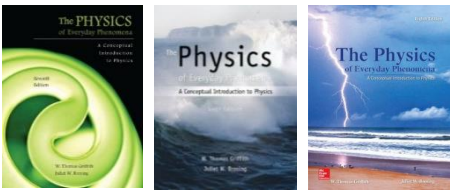


Syllabus -- updated 13 Nov 2017

Class Information 

Lecture	Lecture Room 2, Van Allen Hall; 11:30-12:20 Monday, Wednesday, Friday
Lab	<ul style="list-style-type: none"> • Lab only if registered for 4 S.H., not for students registered for 3 S.H. • Starts the 2nd week of classes.
Text	<ul style="list-style-type: none"> • Required: <u>The Physics of Everyday Phenomena</u>, W. Thomas Griffith; <ul style="list-style-type: none"> ○ any edition: 6th (2009), 7th (2012), or 8th (2015): ○ Used: abebooks, Amazon ○ Iowa Book and University Bookstore ○ Ebooks: McGrawHill ○ on reserve at the Sciences Library • Required: WebAssign subscription, and a ResponseWare License. See below. • Recommended: Course Pack at HawkShop Bookstore (printed lecture slides, with room for notes); if these are sold out, you can request a special order at the bookstore's Help Desk • If you are taking the lab, download the required lab manual at no cost from ICON. 
Requirements	<ul style="list-style-type: none"> • MATH:1010 (22M:005) Trigonometry or similar. (High school Algebra II is sufficient.) Closed to students who have taken PHYS:1200, PHYS:1511/1512, PHYS:1611/1612.
Dept. DEO	Professor Frederick Skiff, 203 VAN
Objective of the Course	<ul style="list-style-type: none"> • This course is an introduction to the way physics helps you understand the world around you. • You will learn physics concepts and how they can be represented by mathematical formulas to solve problems. • You will develop a way of thinking that is nonsubjective and analytical.
Description of the Course	<ul style="list-style-type: none"> • The course is offered two ways: 3 S.H. and 4 S.H. <ul style="list-style-type: none"> ○ The only difference is the lab, which is taken by students enrolled for 4 S.H. • Topics: concepts and quantitative treatment of mechanics, electricity, heat, liquids, gases; atomic, nuclear, and elementary particle physics.
Requirements met by this course	<ul style="list-style-type: none"> • General Education (GE) Natural Sciences • Undergraduate majors including: Nuclear medicine technology, environmental sciences (geosciences track), radiation sciences, athletic training, speech-and hearing science. (I make an effort to include topics of special interest to students in these majors.) • Preprofessional requirements for pharmacy. • Does not meet preprofessional requirements for medical and dental schools • It is possible to take this course before PHYS:1511 & 1512 to prepare for those courses.
Instructor:	John A. Goree, 512 Van Allen Hall, 319-335-1843
E-mail:	<p>john-goree@uiowa.edu</p> <p>I do not check messages sent through ICON (i.e., Canvas).</p>
Office Hours:	12:30 – 1:00 Mon, 10:00 – 12:00 Tue, 12:30 – 1:00 Wed, or by appointment.
Attendance	<ul style="list-style-type: none"> • <i>Laboratory</i> attendance is required for 4 S.H. students. • <i>Lecture</i> attendance is not required, but it contributes to the “clickers” grade.
Getting help from me:	<ul style="list-style-type: none"> • I enjoy helping students. I help with homework assignments. • If you're struggling in the course, it will help to talk to me. • In person or phone is best; email is suited only for simple inquiries.

LECTURE SCHEDULE

PHYS:1400

Spring 2016

<i>Week</i>	<i>Day</i>	<i>Topics</i>	<i>Homework Q&E Due at 11 PM</i>	<i>Comment (FV = view flip video by 11 AM before this lecture)</i>	<i>Sections in Textbook</i>
21 Aug	M	Eclipse today. No class; instead use ICON to view "Lecture Videos" 1 and S			Sec. 1.1-1.4 Appendices A & B
	W	2. Description of Motion			Sec. 2.1 - 2.4
	F	3. Uniformly Accelerated Motion	Ch1 due Aug 25	FV	Sec. 2.5
28 Aug	M	4. Acceleration due to Gravity		FV	Sec. 3.1 - 3.3
	W	5. Projectile Motion	Ch2 due Aug 30	FV	Sec. 3.4 - 3.5
	F	6. Newton's First and Second Laws of Motion		FV	Sec. 4.1 - 4.3
4 Sep	M	Holiday	Ch3 due Sep 5		
	W	7. Newton's Third Law of Motion		FV	Sec. 4.4 - 4.5
	F	8. Circular Motion and Centripetal Acceleration	Ch4 due Sep 8	FV	Sec. 5.1 - 5.2
11 Sep	M	9. Planetary Motion & Newton's Law of Gravitation		FV	Sec. 5.3 - 5.5
	W	10. Work, Kinetic Energy, and Potential Energy	Ch5 due Sep 13	FV	Sec. 6.1 - 6.3
	F	Review for Exam #1			Chapters 1-5
18 Sep	M	Exam 1			Chapters 1-5
	W	11. Conservation of Mechanical Energy			Sec. 6.4 - 6.5
	F	12. Momentum & Conservation of Momentum	Ch6 due Sep 22	FV	Sec. 7.1 - 7.3
25 Sep	M	13. Elastic and Inelastic Collisions		FV	Sec. 7.4 - 7.5
	W	14. Rotational Motion	Ch7 due Sep 27	FV	Sec. 8.1 - 8.3
	F	15. Conservation of Angular Momentum		FV	Sec. 8.4 - 8.5
2 Oct	M	16. Fluids at Rest	Ch8 due Oct 2	FV	Sec. 9.1 - 9.3
	W	17. Fluids in Motion		FV	Sec. 9.4 - 9.5
	F	18. Heat	Ch9 due Oct 6	FV	Sec. 10.2 - 10.2, 10.5
9 Oct	M	Review for Exam #2			Chapters 6 - 9
	W	Exam 2			Chapters 6 - 9
	F	19. First Law of Thermodynamics			Sec. 10.3 -10.4

16 Oct	M	20. Heat Engines	Ch10 due Oct 16	FV	Sec. 11.1 - 11.3
	W	21. Second Law of Thermodynamics		FV	Sec. 11.2 - 11.5
	F	22. Electric Charges & Coulomb's Law	Ch11 due Oct 20	FV	Sec. 12.1 - 12.3
23 Oct	M	23. Electric Field and Electric Potential		FV	Sec. 12.4 - 12.5
	W	24. Simple Electric Circuits	Ch12 due Oct 25	FV	Sec. 13.1 - 13.3
	F	25. Electric Energy & Power		FV	Sec. 13.4 - 13.5
30 Oct	M	26. Magnetic Fields	Ch13 due Oct 30	FV	Sec. 14.1 - 14.3
	W	27. Electromagnetic Induction		FV	Sec. 14.4 - 14.5
	F	28. Waves & start exam review	Ch14 due Nov 3	FV	Sec. 15.1 - 15.3
6 Nov	M	Finish review for Exam #3			
	W	Exam 3			Chapters 10 - 14
	F	29. Sound			Sec. 15.4 - 15.5
13 Nov	M	30. Electromagnetic Waves	Ch15 due Nov 13	FV	Sec. 16.1 - 16.3
	W	31. Physical Optics		FV	Sec. 16.4 - 16.5
	F	32. Geometrical Optics 33. Atomic Structure	Ch16 due Nov 17	FV32	Sec. 17.1 - 17.3 Sec. 18.1 - 18.3

Note: we will omit chapter 17 entirely. The Webassign homework for chapter 17 has been cancelled. We do, however, still view the flip video that was intended to be viewed before lecture 32; you will view it before Lecture 33 on Friday.

Thanksgiving Break 20-24 Nov

27 Nov	M	34. Quantum Mechanics of Atoms & start of Nuclear Structure		FV34	Sec. 18.4 - 18.5
	W	35. Nuclear Structure	Ch18 due Nov 29	ACE Eval.	Sec. 19.1 - 19.2
	F	36. Nuclear Reactions		FV36	Sec. 19.3 - 19.5
4 Dec	M	37. Special Relativity, quarks	Ch19 due Dec 5		Sec. 20.1 - 20.3, 21.1
	W	Continue lecture 37			
	F	Review for Exam #4	Ch20 due Dec 8		

11-15 Dec		Exam 4 <ul style="list-style-type: none"> • Date and time to be announced later. 8:30 – 9:30 AM Wednesday Dec. 13, Lecture room 2. (The exam will not start at 7:30 AM as scheduled by the registrar.) • This exam covers only Chapters 15–21; it does not cover the entire course. (Exam 4 covers only chapters 15, 16, 18, 19, and the partial chapters sections 20 – 20.3 and 21.1) • Time limit 60 minutes.
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Flip Videos



Active Learning: I use two modern methods that are proven by research to be more effective than traditional lectures:

- *Peer instruction*
 - Discuss poll questions with your neighbor, and respond using a clicker.
 - You receive the same credit if you respond to a poll question; it does not matter whether your answer was correct or incorrect.
- *Flipped classroom*
 - Watch short videos on ICON before most lectures. Look in ICON's "Assignments"
 - Quiz:
 - A quiz question is included at the end of the assigned video.
 - Receiving a non-zero grade requires playing the entire video first without skipping forward.
 - Deadline: 11 AM before the lecture starts.
 - Sometimes there's an image just before the quiz; pause the video to examine this image before proceeding to the quiz.
 - I don't know yet whether it's possible to repeat viewing the video and the quiz.
 - The same videos *without* a quiz are available on ICON's "Modules", to take notes or review for exams.

Clickers



Clickers (Student Response System):

- You will need a wi-fi enabled device (e.g., smart phone, tablet, or laptop).
- If you don't already have a license, buy the required code for approximately \$27.99
 - at IMU or Iowa Book stores, or
 - at the online [Turning Point student store](#), access the store after using ICON to register and create a Turning Point account.
- Bring your enabled device to lecture starting the 3rd lecture. Each day, you'll be told a new "session ID".
 - For technical help, contact [ITS Helpdesk](#) or Turning Technologies Tech Support at 1-866-746-3015
 - FAQs: [2016 Clicker TPCloud-Quick Student Guide](#)

Labs



Who takes the lab:

- Only students enrolled for 4 S.H. credit will take the lab portion of the course.

Who teaches the lab:

- Lab sessions are conducted by a teaching assistant (TA).
- The TA is supervised by Prof. Goree and the department's Lab Coordinator.

Lab attendance:

- *Attendance* is required for 4 S.H. students:
 - Attendance will be recorded at the beginning of the session.
 - You should arrive early, because you may be penalized if you arrive late.
 - Bring these:
 - a *printed worksheet* for today's lab – print this yourself, in advance
 - the *lab manual*, either printed or an electronic version
- Bring a calculator.
- *If your lab conflicts with a night exam*: University policy is that regularly scheduled classes including this laboratory take precedence over night exams, and the instructor for the course with the night exam must offer you a make-up exam.

How many labs you'll do:

- 10 is the normal number of labs to complete.
- 11 labs are scheduled, but the last one is for make-up only. Your grade will not be improved by taking 11 labs instead of 10.
- A minimum of 9 labs must be completed to receive a passing grade for the lab. See the lab grading info.

Lab manual

- The lab manual is needed only for 4 S.H. students
- Print or save two PDF files from ICON before the first lab:
 - manual \approx 170 pages (print or use a tablet)
 - worksheets \approx 26 pages (you must print these, single sided only)
- The manual has color photos, but black & white printing is perfectly okay. A local copy store will charge about \$20.
- You may use an electronic tablet or laptop to view the *manual* instead of printing it, but you must print the *worksheets* because you will hand these in.
- I distribute the manual this way to reduce your cost.

<i>Tuesday</i>	<i>how many labs</i>	<i>lab</i>
22 Aug		no lab
29 Aug	1	A1 Precision Measurements
5 Sep	2	A3 Acceleration of Gravity
12 Sep	3	A5 Projectile Motion
19 Sep		no lab
26 Sep	4	A4 Hooke's Law and Simple Harmonic Oscillators
3 Oct	5	A6 Conversion and Conservation of Energy
10 Oct		no lab
17 Oct	6	A8 Specific Heat
24 Oct	7	A9 Charge Measurement
31 Oct	8	A11 Ohm's Law
6 Nov		no lab
14 Nov	9	A12 Speed of Sound
21 Nov		holiday
28 Nov	10	A16 Geiger Counters and Radioactive Shielding
5 Dec	11 makeup only	A13 Thin Lenses

If you miss a lab:

1. You may do the 11th lab during the last week of the semester, as a makeup.
2. You may attend another section, the same week as the lab you missed, but only if both of the following conditions are satisfied:
 - You must get approval, in the previous week, from both your TA and the TA of the lab section you wish to attend; and
 - The lab section you wish to attend is not full

**Lab Sections:**

<i>sec</i>	<i>day</i>	Time and room
21	Tu	8:00A – 10:50, 361 VAN
23	Tu	11:30P – 2:20P, 361 VAN
25	Tu	3:30P – 6:20P, 361 VAN
27	Tu	7:00P – 9:50P, 361 VAN

Homework



HOMEWORK:

The role of homework:

- Homework helps prepare you for many of the exam questions.
- The lectures help you prepare to do the homework.

What you need for homework:

- Homework is done on the internet.
- You will access Webassign through the company's website: <http://webassign.net>
- Purchase a subscription from Webassign:
 - When: after the course has started; grace period ends approximately Sept. 20
 - Cost: \$40.95, pay with a credit card (or maybe PayPal – I'm not sure)
 - You will place this order through the Webassign website. Specify the "class key" *uiowa 7849 3609*, which is how Webassign recognizes this course.
 - Use your full first name and last name, not a nickname
- I recommend a spiral notebook to write your work and notes as you do each problem.
- There are two kinds of assignments:
 - Exercises (E)
 - Exercises have randomized numerical values; every student has a different question.
 - Number of attempts:
 - You are given *three attempts* at a solution for full credit
 - Further attempts are allowed but with a gradually reducing score; this is intended to discourage random guessing.
 - Your answer is graded as correct if it is within +/- 3% of the correct answer (e.g., 10.0 will be accepted if the correct answer is 9.8).
 - Some answers are sensitive to the sign (+ or -), while others are not; if you can't figure out why your answer is wrong, try changing the sign.
 - Questions (Q)
 - These are multiple choice.
 - You are given only *one attempt* to answer it correctly.
 - These assignments are intended to develop conceptual understanding.
 - You will probably find the questions to be harder than the exercises.
- Doing your homework:
 - Use a web browser on any computer or tablet.
 - If you want help from me or a TA, it is useful to show it to us on a laptop or tablet.
 - You may save your responses before submitting.
 - Check the due date carefully.
 - Homework grades can be viewed only on Webassign.net, not on ICON
- To prepare for exams, you may view an assignment along with its "key" (answer) after the due date.

- Cheating:
 - You are allowed to:
 - Discuss homework with a classmate.
 - You are not allowed to:
 - Use websites or paid services to obtain solutions; this is cheating.
 - Permit anyone else to submit answers for you; this is cheating.
 -
- **Help with homework:**

You may seek help in doing the homework from:

- Prof. Goree
 - I'm usually available for a few minutes at the end of a lecture.
 - I'm available during office hours or by appointment.
- Tutorial TA
 - 310 VAN, look for a whiteboard on wheels with a "tutorial" sign; the schedule will be posted on ICON's Modules.
- Any Basic Physics TA
 - during their office hours
 - David M., Friday 2:10 – 3:10, 409 VAN
 - Adam Z., Thursday 4:30 – 5:30, 658C VAN
 - or after lab
 - even if you are not enrolled in a lab



Efforts I make to reduce your cost to take this course:

- *Textbooks:* Savings \approx \$202

I designed the course so that you can use older editions of the book, which you can buy cheaply. You'll pay as little as \$30 vs about \$232 for a new book.

- *Web-based homework:* Savings \approx \$19

Instead of using the high-cost service offered by the textbook publisher, I use another company to provide better service for less. You'll pay only \$41 vs \$60+ for Connect by McGraw Hill.

- *Lab manual:* Savings \approx \$49

I provide you a PDF file at no cost. Other instructors offer printed lab manuals through a bookstore. You'll pay \$0 for the file and very little to print the worksheets, vs about \$49 if it were sold printed.

- *Printed powerpoint slides:* Savings \approx \$34

I am providing my powerpoint slides, sold through the Hawk Shop bookstore as a "course pack" for about \$36.35 vs about \$70 if I had posted the files online for you to print on an ITC printer.

Exams



EXAMS - Four total:

- Three exams during the semester
- Final exam - just like the other three exams; it's not comprehensive

What they're like:

- All exams are multiple choice, with approximately 18 questions.
- Two kinds of questions, divided nearly 50/50:
 - *conceptual* with a descriptive answer (like the "Questions" in the homework)
 - *calculation* (like the "Exercises" in the homework).
- The questions are based on what you learn in homework, lectures, and flip videos.
 - *Homework* (~ 50% of exam content)
 - None of the exam questions are *precisely* like homework questions. This means that memorizing the exact exercises in your homework will not be helpful.
 - What will be helpful on the exam is learning the concepts and methods, and being able to use them.
 - The *lecture* (~ 40% of exam content)
 - content is used especially for conceptual questions, but also some exercises. Some questions are drawn from the lecture content, with no corresponding question in the homework.
 - *Flip videos* (~ 10% of exam content)
 - No exam questions are based on the *labs*.
 - No exam questions are based strictly on the *textbook* (although many students find it useful to study using the textbook and its end-of-chapter problems, since the lecture and homework assignments are based on the textbook).
 - Most questions are based on content from a single chapter, but some questions combine ideas from multiple chapters.
- Memorization is not the point of this course, and for this reason:
 - You may bring a special 3X5 note card to the exam. See below.
 - You will be provided the list of "Physical Constants" from the inside front cover of your textbook.
 - For the last exam only, you will also be provided a Periodic Table of the Elements.
- Seats will be assigned. **Find your seat number in advance**, in the ICON Announcements.
- If you prefer a left-handed seat, email me no later than the second week of class.
- You will hand in both your question sheet & answer sheet.

What to bring:

- Bring a pencil, eraser, and calculator. See allowed calculator types, below.
- Bring your student ID; you might be asked to show it.
- A colored 3" X 5" note card:
 - Use the card that I provide you in advance, in the lecture.
 - You may write your notes, handwritten in your own handwriting, on both sides.
 - Your seat number and student ID must be written on your card.
 - You must hand the card in, along with your exam.
 - Tip: write your seat number and ID on the card before the exam; this will help you find your seat.
 - If you didn't get a card in the lecture, you can collect one from my office door, 512 VAN; it's not necessary to contact me for this.
- It is cheating to use information written on paper larger than the card that I provide.

Do not bring:

- **Mobile phones.** Zip them up in a backpack or purse before entering the room. Phones must *never* be visible in the exam room. Proctors watch for them.
- Electronic devices or cameras of any kind.
- **Camera** or any device that can photograph an exam paper.
- **Hats.**
- Dictionary or language-translating device.
- Calculator with a display larger than two lines. See allowed calculator types, below.
- Books or notes other than the provided 3" X 5" note card.



Calculators allowed in exams:

- A simple scientific calculator that displays only two lines of numbers is allowed.
- A calculator with a display capable of showing graphs, formulas, or text messages is not allowed.
- Recommended features: arithmetic, squares and exponents, square roots, and scientific notation.



Makeup exams:

Makeup exams are offered in case of:

- Illness. For one exam, no medical documentation is required. For a second missed exam it is required.
- “Unavoidable circumstances”
 - Jail and jury duty are ok. Show me a police report, jury summons, or similar documentation.
 - Weddings are not ok.

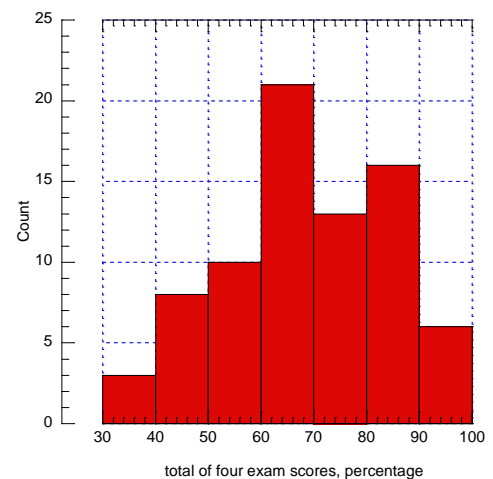
How hard are the exams?

The time allowed is sufficient for most students. More than 50% of students leave before the exam ends.

Most students agree that the exams are not easy. An average exam score of 65% to 70% is typical; the grading scale for the course takes this into account.

Difficulty of questions:

- generally comparable to the harder half of homework.
- varying levels
 - The *easiest third* of the questions:
 - Can generally be answered correctly by any student who has done the homework and attended the lecture.
 - These include one-step calculations.
 - The *hardest third* of the questions:
 - Are intended to separate A vs B students.
 - These include:
 - comparing concepts,
 - recalling less-prominent points from the lecture that are not mentioned in homework, or
 - performing a two-step calculation using two formulas.
 - combining concepts from two chapters.



histogram from Fall 2016

How to study



The most effective way to study:

- *Before* a lecture:
 - View the flip video.
 - Examine the “learning objectives” page, to identify key topics to learn during the upcoming lecture.
 - Optionally, read the textbook sections identified in the syllabus schedule.
- *During* a lecture:
 - Take notes on a printout of the lecture slides (sold as a Course Pack, Univ. of Iowa bookstore).
 - I present Powerpoint slides too fast for you to take a complete set of notes while writing in an empty notebook.
 - By using the recommended Course Pack with the printed slides, you can write your notes on these printed pages, adding what you need to them rather than duplicating them.
- *Soon after* a lecture:
 - Review your notes.
- *Then* do the homework.
 - Keep a notebook with your hand-written work. For each exercise, write the same things I do in the lecture slides:
 - The name of the principle you use (e.g., conservation of momentum)
 - The equation(s) you need
 - A sketch, if it is helpful
 - Then write your work, arriving finally at your answer, like the boxed examples in the lecture.
 - Avoid “weird tricks” to get WebAssign to accept a numerical answer.
 - for example, guessing whether to multiply or divide two given numbers
 - these tricks won’t be available in an exam, so using them to do homework will waste the opportunity to prepare for exams
 - your exam experience will go much better if you follow a practice of doing homework “E” exercises the same way you would if they were exam problems
 - Get help on homework from the instructor or a TA.
- *Before your exam*:
 - Review your homework, and be sure that you can do it. WebAssign has a “View Key” feature that allows you to view the correct answer after the due date.
 - Review the “learning objectives” at the end of each lecture’s pdf file, and verify that you have a command of them.
 - Review lecture notes.
 - View flip videos again. (High speed playback is ok.)
 - Prepare your 3” X 5” note card; include the equations you used in your homework.
- *The textbook* is less important than the lecture and homework for most students, but many do find it useful:
 - The most common uses of the book:
 - Reading example questions & example exercises within a chapter
 - Doing unassigned questions at the end of chapters, as practice
 - Check answers in the back of the book
 - Ignore the handful of questions on topics not covered in the lecture or homework
 - Reading the textbook is helpful for some students, but not all, in gaining an understanding of concepts. Students learn in different ways.

Grades



Students enrolled for <u>4 S.H.</u>	Students enrolled for <u>3 S.H.</u>														
<p>Course grade = 25% Lab grade + 75% Lecture grade</p>	<p>Course grade = Lecture grade</p>														
<p>Lab grade</p> <ul style="list-style-type: none"> ○ It depends on how many labs you complete: <ul style="list-style-type: none"> ▪ 10 labs: The average of the 10 labs (this is what I expect you to do). ▪ 9 labs: The 9 labs averaged together with a zero for the tenth lab ▪ < 9 labs: entire lab grade is zero ○ Most students receive a Lab grade >90% because the labs are designed for success, not frustration. 	<p>There is no lab for students enrolled for 3 S.H.</p>														
<p>Lecture grade</p> <p>Weighting:</p> <ul style="list-style-type: none"> ○ Four exams: 18% each ○ Homework: 16% ○ Clicker (in class): 6% (5 lowest scores are dropped; each lecture is equally weighted) ○ Quizzes (flip video): 6% (3 lowest scores are dropped) <p>Scale:</p> <table border="1" data-bbox="326 1350 769 1633"> <thead> <tr> <th></th> <th>Grade, weighted as above</th> </tr> </thead> <tbody> <tr> <td>A+, A or A-</td> <td>85% - 100%</td> </tr> <tr> <td>B+, B or B-</td> <td>75% - 84.99%</td> </tr> <tr> <td>C+ or C</td> <td>65% - 74.99%</td> </tr> <tr> <td>C- or D+</td> <td>60% - 64.99%</td> </tr> <tr> <td>D</td> <td>55% - 59.99%</td> </tr> <tr> <td>F</td> <td><55%</td> </tr> </tbody> </table> <p>I will adjust this scale only if it results in a grade distribution that differs greatly from the recommendation of the College of Liberal Arts and Sciences for introductory courses.</p>			Grade, weighted as above	A+, A or A-	85% - 100%	B+, B or B-	75% - 84.99%	C+ or C	65% - 74.99%	C- or D+	60% - 64.99%	D	55% - 59.99%	F	<55%
	Grade, weighted as above														
A+, A or A-	85% - 100%														
B+, B or B-	75% - 84.99%														
C+ or C	65% - 74.99%														
C- or D+	60% - 64.99%														
D	55% - 59.99%														
F	<55%														

FAQ about grades:

1. The exam was hard and I am disappointed in my grade. What can I do differently next time?

- See the page “How to study” in this syllabus.

2. Can I do something for “extra credit?”

- No, your grade is determined only as described above.

3. I was absent one or two lectures. What will happen to my grade?

- No effect, if you miss only a few lectures. Same thing if your clicker malfunctions. That’s because I drop the five lowest clicker scores.

4. Will taking the lab affect my course grade?

- Yes, especially if your lecture grade is low. With the 75/25 weighting that I use, if you receive an A in the lab (which is typical):
 - if your lecture grade is B+ or higher, your course grade will be unaffected by the lab grade;
 - if your lecture grade is in the range C- to B your course grade will likely be improved by a +/- shade, for example from a C- to a C;
 - if your lecture grade is below a C- your course grade will likely be improved by two shades, for example from a D- to a D+.

5. Is it fair that students taking the lab can receive a higher course grade?

- Yes, because of the effect on your overall GPA. This is the reason that I use the 75%/25% weighting scheme for 4 S.H. students.

For example, consider two students: Mr. Lee takes 4 S.H. and receives an A for the lab portion of the class and a D+ for the lecture portion, which combine for a 4 S.H. course grade of C. Ms. Kim takes only three S.H. and receives a 3 S.H. grade of D+; Ms. Kim also takes a music class for 1 S.H. and receives an A. For the four semester hours of classes these students took, the overall effect on the university GPA will be the same.

6. I didn’t do the flip-video quiz; may I have an extension on the deadline?

- No. I drop the three lowest quiz scores.

How a grade is determined for a 3 S.H. student:

Your course grade is the same as your “lecture grade”.

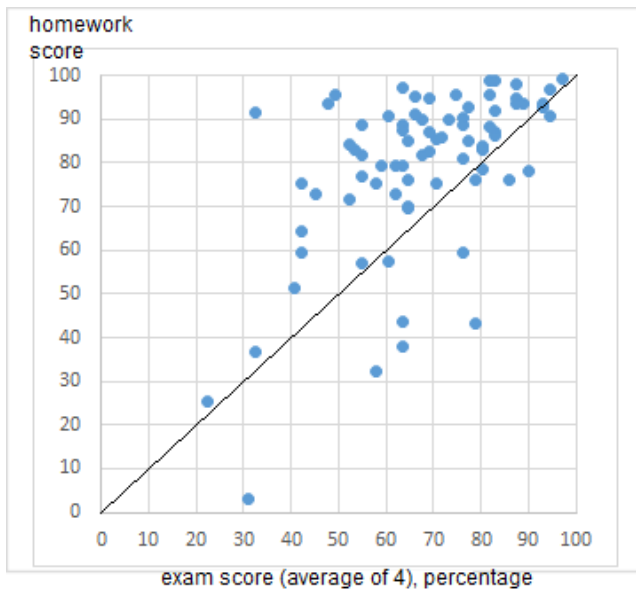
Example of how a grade is determined for a 4 S.H. student:

- Suppose you receive D+ for the “lecture grade”. This is 1.3 out of 4.0 using the traditional GPA scale.
- And suppose you receive A for the lab. This is 4.0 on the GPA scale.
- I will calculate your course grade directly as $[(0.75 \times 1.3) + (0.25 \times 4.0)] = 2.0$ which corresponds to a C. You would thus receive a C for the course.

Interpreting your homework and exam scores:

- Exam scores are typically lower than homework scores.
- A rough guide, to interpret your *homework* scores: A 90-100%, B 80-90%, C 70-80%.
- A rough guide, to interpret scores on *exams* with 18 questions:

	If exam mean is 70%	If exam mean is 64%
A	16-18	15-18
A/B borderline	15	
B	13-14	13-14
B/C borderline	12	12
C	10-11	9-11
D	8-9	7-8
F	0-7	0-6



data for 77 students, Fall 2016

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 Academic Policies Handbook at <https://clas.uiowa.edu/students/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](#), k.11).

Accommodations for Disabilities

The University of Iowa is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (which includes but is not limited to mental health, attention, learning, vision, and physical or health-related conditions). A student seeking academic accommodations should first register with Student Disability Services and then meet with the course instructor privately in the instructor's office to make particular arrangements. Reasonable accommodations are established through an interactive process between the student, instructor, and SDS. See <https://sds.studentlife.uiowa.edu/> for information.

Nondiscrimination in the Classroom

The University of Iowa is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University's Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity, diversity@uiowa.edu, or visit diversity.uiowa.edu.

Academic Honesty

All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's [Code of Academic Honesty](#): "I pledge to do my own academic work and to excel to the best of my abilities, upholding the [IOWA Challenge](#). I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled ([CLAS Academic Policies Handbook](#)).

CLAS Final Examination Policies

The final examination schedule for each class is announced by the Registrar generally by the fifth week of classes. Final exams are offered only during the official final examination period. No exams of any kind are allowed during the last week of classes. All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date, time, and place of a final exam.

Making a Suggestion or a Complaint

Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (CLAS [Academic Policies 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 [Office of the Sexual Misconduct Response Coordinator](#) 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 [Department of Public Safety website](#).