

# Physics 2310: Physics for Scientists I

## *Syllabus Fall 2020*

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- Instructor: Charles Torre, [charles.torre@usu.edu](mailto:charles.torre@usu.edu), SER 232
  - Textbook: Essential University Physics, 3rd Edition, Richard Wolfson
  - Lectures: 1:30-2:45 T-Th, SER 244
  - Recitation: 3:30-4:20 W, SER 244 or ESLC 130 or via Zoom
  - Class Website: [canvas.usu.edu](http://canvas.usu.edu)
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### **Subjects**

We will be covering Chapters 1-19 in the text. The topics are: Units; Motion in 1D, 2D, 3D; Newton's Laws; Force and Motion; Applying Newton's Laws; Work and Energy; Energy Conservation; Gravity; Systems of Particles; Rotation; Angular Momentum; Statics and Equilibrium; Oscillations; Waves; Fluids; Temperature; Thermal Behavior; First and Second Laws of Thermodynamics.

### **Assessment**

Your grade will be determined according to the following scheme:

Exams	60%
Homework	25%
Reading quizzes	10%
Participation	5%

USU's grading scale is shown below to give you a feel for how your final grade will be determined. The instructor reserves the right to adjust the grading scale as appropriate.

A (93-100)	A- (90-92)	B+ (87-89)	B (83-86)	B- (80-82)	C+ (77-79)
C (73-76)	C- (70-72)	D+ (67-69)	D (60-66)		

Exams: There will be four exams (3 hour exams and the final exam) throughout the semester. Exams will be administered in the USU Testing Center ([ais.usu.edu/testing/](https://ais.usu.edu/testing/)). More information on how to schedule a time to take a test will be given closer to the exam date.

*The final exam is Tuesday, December 15, 1:30 p.m. – 3:20 p.m.*

Homework: Students must purchase access to the Mastering Physics system. The course ID is MPTORRE2310FALL2020. There will also be hand-written assignments. These will be turned in during class each Thursday.

Reading quizzes: To help you keep up with the material, you will take pre-lecture reading quizzes. These are brief multiple choice quizzes taken via Canvas. They are not supposed to be painful; they just ask a few simple questions about the reading for the day's class.

### **Instructions for registering for homework**

1. Go to [www.masteringphysics.com/](http://www.masteringphysics.com/).
2. Click Get Registered under Students and then OK! Register now and enter the course ID: MPTORRE2310FALL2020.
3. Create an account or log in if you already have one.
4. Eventually enter your access code or buy one.
5. Sometime during the process you will enter your name. Please use the exact same name that you use in USU's Canvas system.
6. For the text, choose Wolfson, Essential University Physics, 3e.
7. You will then have the option to purchase the e-text.
8. After paying, you will have your account set up.
9. Finally, log in to [masteringphysics.com](http://masteringphysics.com), join the course and enter your full A-number (including the A) for your student ID.

### **Auto Access eBook**

*Modified Mastering Physics for Essential University Physics, 3e by Wolfson*

This course requires all-inclusive digital materials that are provided to you at lower price than traditional printed materials. These materials are paid for through an “Auto Access Digital Materials” charge placed on your student account when you registered for the course. To access the materials, visit the Canvas course site. For more details, including dates, deadlines, and opt-out info, visit your student Auto Access Portal: <https://portal.verba.io/usu/login>

**Fees**

There is a \$10.00 fee for this class. It covers classroom supplies, as well as equipment, maintenance and supplies for demonstrations. (Note: some scholarships will not pay for this fee, even though they pay full tuition costs. Scholarship students have been dropped from this class without notice for not paying the fee.)

**Disability Resource Center**

Students with ADA-documented physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations. Veterans may also be eligible for services. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, (435) 797-2444. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print, digital, or audio) are available with advance notice.

**Honor Code**

The honor code will be strictly enforced in this course. Any suspected violations of the honor code will be promptly reported to the honor system. For more information please visit: <http://www.usu.edu/policies/PDF/Acad-Integrity.pdf>

**Schedules and Everything Else**

*See Canvas website.*