

PSCI 3304: Physical Science II

CRN: 11196

Term: Fall 2020

Time: online, synchronous sessions MW

Where: PSCI 220

Instructor: Dr. Huiyan Yang
Office: PSCI 215B
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Office Hours: TBA

Required Materials:

Textbook: The Physical Universe, 17th edition, by Krauskopf and Beiser. *McGraw Hill Connect Registration* required for homework assignments.
<https://connect.mheducation.com/class/h-yang-fall-2020-11196>

Lab: Pivot Interactives and PhET Interactive Simulations
Class key for Pivot: 9d6c951e

Scientific calculator is required

Textbook Chapters:

Chapter 6 Electricity and Magnetism
Chapter 7 Waves
Chapter 8 Nucleus
Chapter 9 The Atom
Chapter 10 The Periodic Law
Chapter 11 Crystals, Ions, and Solutions
Chapter 12 Chemical Reactions

Understanding of concepts is to be demonstrated by:

- accurately communicating them in written and verbal formats
- correctly answering both short and long answer questions
- completing hands-on activities

Assessment and Grading:

Lab reports (completed in class)	20%
Homework	10%
Quiz	10%
Exams (4)	60%
Exercises	10% (extra)

Lab Policy: Lab is mandatory. There is no makeup for missed labs. The worst lab score will be dropped.

Homework Policy:

Homework is assigned in McGraw Hill Connect (*Registration* required for <https://connect.mheducation.com/class/h-yang-fall-2020-11196>). There is no makeup of missed homework. The worst score will be dropped.

Exams and Quizzes:

- No makeup exam or quiz is given. The worst exam will be dropped, and the worst quiz will be dropped.
- Bring a calculator; cell phones are not allowed.

Additional Course Policies:

- Punctual attendance is critical. Class begins promptly at 1:00 pm. Quizzes given at start of class.
- We will have breaks and you may eat and drink (if you're careful).
- Cell phones should be turned off during class.
- If you miss 2 classes you will be dropped from the course. Three lates (10 minutes or more) will count as an absence.
- When absences occur, it is your responsibility to obtain handouts and notes from your peers. You are responsible to complete the activities you have missed.

These policies will be strictly enforced for two reasons: 1) you are going to be professionals and these policies are typical of professional behavior; and 2) I take your learning very seriously and simply do not want to waste one minute of the time that I have with you.

Military: Students being called for military duties need to contact the instructor as soon as possible.

Academic Integrity Policy:

Acts of academic dishonesty will not be tolerated in this class. Lapses in academic integrity will be referred to the Dean of Students, as required at <http://academics.utep.edu/Default.aspx?tabid=23785>.

Disability Statement:

If you have a disability and need classroom accommodations, please contact the Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East Building, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass. The student is responsible for presenting to the instructor any accommodation letters and instructions.

Tentative Timeline:

Week	Date	Lecture	Lab and Exam	Homework (HW)*
1	Aug 24 Aug 26	Ch 6 Electric Charge	PhET: Coulomb's Law	HW 1 assigned
2	Aug 31 Sep 2	Ch 6 Electric Current	PhET: Circuit Construction Kit: DC	HW 1 due
3	Sep 7	Labor Day, no class		
	Sep 9		Ch 6 Electric Current*	HW 2 due**
4	Sep 14 Sep 16	Ch 6 Magnetism	Pivot Interactives: Force on a Current-Carrying Conductor in a Magnetic Field (beta)	
5	Sep 21 Sep 23	Review for Exam 1	Exam 1	HW 3 due
6	Oct 28 Sep 30	Ch 7 Waves	Pivot Interactives: Exploring Properties of Transverse Mechanical Waves	HW 4 assigned
7	Oct 5 Oct 7	Ch 7 Waves	PhET: Bending Light Pivot Interactives: Angle of Refraction	HW 4 due
8	Oct 12 Oct 14	Review for Exam 2	Exam 2	HW 5 due
9	Oct 19 Oct 21	Ch 8 Nucleus	Pivot Interactives: Radioactive Decay and Half Life	HW 6 assigned
10	Oct 26 Oct 28	Ch 9 Atom	Pivot Interactives: Gas Emission Spectra	HW 6 due
11	Nov 2 Nov 4	Ch 10 Periodic Table	PhET: Build an Atom PhET: Build a Molecule	HW 7 due
12	Nov 9 Nov 11	Review for Exam 3	Exam 3	HW 8 due
13	Nov 16 Nov 18	Ch 11 Crystals, Ions, and Solutions	Chemistry Lab 1	HW 9 assigned
14	Nov 23 Nov 25	Ch 12 Chemical Reactions	Chemistry Lab 2	HW 9 due
15	Nov 30 Dec 2	Ch 12 Chemical Reactions	Review for Exam 4*	HW 10 due
16	Dec 9		Exam 4	HW 11 due

* Lectures are on Monday, and lab and exams are on Wednesday, unless noted otherwise.

* Homework (reading assignment) is assigned and graded in Connect (<https://connect.mheducation.com/class/h-yang-fall-2020-11196>). The due day of homework is on Monday, besides HW2 that is due on Wednesday as Monday is holiday.

* Quizzes and exercises are given in blackboard and due on the same day as homework.

* Lab reports are due on the same day the lab sessions are given.

Important Dates

Sept 9th: Fall Census Day

Oct 30th: Fall Drop/Withdrawal Deadline