

PSCI 3304: Physical Science II

CRN: 22164

Term: Spring 2021

Time: TR 2:30 pm - 4:20 pm

Where: PSCI 220

Instructor: Dr. Huiyan Yang
Office: PSCI 215B
Phone: 747-7510
Email: hyang4@utep.edu
Office Hours:

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-spring-2021-tr>

Lab: Pivot Interactives and PhET Interactive Simulations

Class key for Pivot: ck-50bf3acd

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-spring-2021-tr>). 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	Jan 19 Jan 21	Ch 6 Electric Charge	PhET: Coulomb's Law	HW 1 assigned
2	Jan 26 Jan 28	Ch 6 Electric Charge	PhET: Capacitor Lab: Basics	
3	Feb 2 Feb 4	Ch 6 Electric Current	PhET: Circuit Construction Kit: DC	HW 1 due
4	Feb 9 Feb 11	Ch 6 Magnetism	Pivot Interactives: Force on a Current-Carrying Conductor in a Magnetic Field (beta)	HW 2 due
5	Feb 16 Feb 18	Review for Exam 1	Exam 1	HW 3 due
6	Feb 23 Feb 25	Ch 7 Waves	Pivot Interactives: Exploring Properties of Transverse Mechanical Waves	HW 4 assigned
7	Mar 2 Mar 4	Ch 7 Waves	PhET: Bending Light Pivot Interactives: Angle of Refraction	HW 4 due
8	Mar 9 Mar 11	Review for Exam 2	Exam 2	HW 5 due
9	Mar 15	Spring Break		
10	Mar 23 Mar 25	Ch 8 Nucleus	Pivot Interactives: Radioactive Decay and Half Life	HW 6 assigned
11	Mar 30 Apr 1	Ch 9 Atom	Pivot Interactives: Gas Emission Spectra	HW 6 due
12	Apr 6 Apr 8	Ch 10 Periodic Table	PhET: Build an Atom PhET: Build a Molecule	HW 7 due
13	Apr 13 Apr 15	Review for Exam 3	Exam 3	HW 8 due
14	Apr 20 Apr 22	Ch 11 Crystals, Ions, and Solutions	Chemistry Lab 1	HW 9 assigned
15	Apr 27 Apr 29	Ch 12 Chemical Reactions	Chemistry Lab 2	HW 9 due
16	May 4 May 6	Ch 12 Chemical Reactions	Review for Exam 4*	HW 10 due
17	May 11		Exam 4	HW 11 due

* Lectures are on Tuesday, and lab and exams are on Thursday, unless noted otherwise.

* Homework (reading assignment) is assigned and graded in Connect (<https://connect.mheducation.com/class/h-yang-spring-2021-tr>). The due day of homework is on Monday.

* 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

Feb 3rd: Spring Census Day

Apr 1st: Spring Drop/Withdrawal Deadline