

PSCI 3304: Physical Science II

CRN: 11270

Term: Fall 2019

Time: MW 10:30 am - 12:20 pm

Where: PSCI 220

Instructor: Dr. Huiyan Yang
Office: PSCI 215B
Phone: 747-7510
Email: hyang4@utep.edu
Office Hours: TR 11:00 am - 12:00 pm, or by appointment

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-2019-mw>

Lab Manuals: 1. *Electricity Labs 1-7* and 2. *Nature of Matter* (Available for ~ \$10 each at the Printing Center in the Library.)

Textbook Chapters:

Chapter 6 Electricity and Magnetism

Chapter 8 Nucleus

Chapter 9 The Atom

Chapter 10 The Periodic Law

Chapter 11 Crystals, Ions, and Solutions

Chapter 12 Chemical Reactions

Chapter 13 Organic Chemistry

Chapter 5 Matter and Heat (sections 5.4 - 5.7)

Chapter 9 The Behavior of Fluids (from Griffith, the last chapter in the special UTEP edition)

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	20%
Quizzes	10%
Midterm exams (3)	30%
Final exam	20%

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-2019-thursday>). 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 midterm exam will be dropped off, and the worst quiz will be dropped off.
- The final exam is mandatory. The student loses 20% credit if the final exam is missed.
- 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	Topic	Lab and Quiz	Reading Assignment (RA)
1	Aug 26 Aug 28	Ch 6 Electric Charge	Electricity Lab 1 - Charge	RA 1 assigned
2	Sep 2 Sep 4	Ch 6 Electric Current	Quiz 1 Electricity Lab 2 Electricity Lab 5 - Current & Resistivity	RA 1 due on Wednesday Sep 4, as Sep 2 is labor day
3	Sep 9 Sep 11	Ch 6 Magnetism	Quiz 2 Electricity Lab 3 - Circuits & Ohm's Law	RA 2 due
4	Sep 16 Sep 18	Ch 8 Nucleus	Quiz 3 Electricity Lab 4 - Circuits & Ohm's Law	RA 3 due
5	Sep 23 Sep 25	Ch 9 Atom	Quiz 4 Electricity Labs 6 & 7 - Capacitance	RA 4 due
6	Sep 30 Oct 2	Ch 10 Periodic Table	Quiz 5 Magnetism Lab	RA 5 due
7	Oct 7 Oct 9	Review for Exam 1	Exam 1	RA 6 assigned
8	Oct 14 Oct 16	Ch 11 Crystals, Ions, and Solutions	Investigation M5	RA 6 due
9	Oct 21 Oct 23	Ch 12 Chemical Reactions	Quiz 6 Investigation M6	RA 7 due
10	Oct 28 Oct 30	Ch 13 Organic Chemistry	Quiz 7 Investigation M7	RA 8 due
11	Nov 4 Nov 6	Review for Exam 2	Exam 2	RA 9 assigned
12	Nov 11 Nov 13	Liquids Buoyancy	Quiz 8 Investigation M1	RA 9 due
13	Nov 18 Nov 20	Flotation	Quiz 9 Investigation M4	RA 10 due
14	Nov 28	Thanksgiving Holiday	University Closed	
15	Dec 2 Dec 4	Physical Changes	Exam 3	RA 11 due
16	Dec 9	10:30 am – 12:45 pm	Final Exam	

* Reading assignment is assigned and graded in Connect (<https://connect.mheducation.com/class/hyang-fall-2019-mw>). The due day is on Monday unless noted otherwise.