THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS

CRN:	12567
Course Title:	PHYS 2325, Survey of Modern Physics
Credit Hrs:	3
Term:	Fall 2019
Course Meetings & Location:	TR 3:00 – 4:20 pm, Cotton Memorial Building 201
Prerequisite Courses:	PHYS 2421
Instructor:	Dr. Huiyan Yang
Office Location:	PSCI 215B
Contact Info:	Phone # 915-747-7510
	E-mail hyang4@utep.edu
	Fax # 915-747-5447
	Emergency Contact # 915-747-5536
Office Hrs:	TR 11:30 am – 12:30 pm; or through appointments
Textbook(s), Materials:	Required: Physics for Scientists and Engineers: A Strategic Approach, Extended Edition (4^{th}), by Randall D. Knight Online study tool: MasteringPhysics (MPYANG5456439) (Homework is assigned and graded in MasteringPhysics. All students are required to have access of MasteringPhysics.)
	Suggested: Modern Physics, 3^{rd} Edition, by Kenneth S. Krane
Course Objectives (Learning Outcomes):	The main objective of this course is to introduce students the theories of modern physics and its many and varied applications. Making emphasis in the special theory of relativity and quantum theory, it will be provided a framework for understanding the physics of atoms and nuclei. The theory of atom will be examined with emphasis on quantum-mechanical notions. The expected outcome of this course is to give the students a conceptual framework to prepare them to connect the underlying theories to applications in different areas of science and technology.
Course Activities/Assignments:	Course activities include reading assignments, lectures, homework, quizzes, three regular exams, and a final exam.
Assessment of Course Objectives:	Outcomes will be measured by homework and exams.
Grading Policy:	Grades will be calculated using the following weights: Homework 20%; Quizzes 10%; Exams 30%; Final Exam 40%
Make-up Policy:	No makeup will be given to missed homework, quizzes, or midterm exams. The worst score will be dropped off for them. Attendance at final exam is mandatory. The student loses 40% credit if the final exam is missed. Bring a calculator to the exam; cell phones are not allowed.

Attendance Policy:	Attendance in class is the responsibility of the students. If class is missed, you are responsible for obtaining the notes from another student or from the instructor.
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.
Civility Statement:	This course requires positive behaviors: Be on time and be focused on your work. Please do not distract yourself or others with telephones or music.
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 at UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.
Military Statement:	If you are a military student with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact me as soon as it appears that your service will interfere with this course. The instructor will work with you to ensure that your service will not adversely affect your academic progress.
Course Schedule:	Tentative timeline: May change with class activity Chapter 36: Relativity Chapter 37: The Foundations of Modern Physics Chapter 38: Quantization Chapter 39: Wave Functions and Uncertainty Chapter 40: One-Dimensional Quantum Mechanics Chapter 41: Atomic Physics Chapter 42: Nuclear Physics Exam I: Oct. 3rd Thursday Exam II: Nov. 5th Tuesday Exam III: Dec. 3rd Tuesday Final Exam: Dec. 12th Thursday
Important Date:	Fall Drop/Withdrawal Deadline: November 1st