

## INTRODUCTORY MECHANICS

PHYS 2320 (CRN: 29185, SPRING 2022)

**Lectures:** Undergraduate Learning Center 216, 12:30 pm – 1:50 pm MW

**Term:** Jan 18, 2022 - May 05, 2022

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**Instructor:** Dr. Hari Nair; [hnair@utep.edu](mailto:hnair@utep.edu) **Office:** PSCI 223 C **Phone:** 747-7544

**Office Hours:** T/TR 02:00-04:00 pm

TA:

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FINAL EXAM DATE: Friday, May 13th 1:00 pm – 3:45 pm (scheduled by UTEP)

<https://utep.edu/student-affairs/registrar/scheduling/Final%20Exams%20Schedule/Final%20Exam%20Schedule%20Spring%202022.pdf>

**Textbook:** *Physics for Scientists and Engineers*, Knight, 4<sup>th</sup> edition.

It can be bought bundled with Mastering Physics (online homework). Go to:

<http://www.pearsonmylabandmastering.com> whether you have already bought an access code, or buy it online, you need the following course ID to get into the course:

**Learning goals:** PHYS 2320 introduces the basic concepts of motion (kinematics and dynamics) in one and two dimensions with the help of calculus. Ch 1) Concepts of motion; Ch 2) Kinematics in one dimension; Ch 3) Vectors and coordinate systems; Ch 4) Kinematics in two dimensions; Ch 5) Force and motion; Ch 6) Dynamics I: motion along a line; Ch 7) Newton's third law; Ch 8) Dynamics II: motion in a plane; Ch 9) Work and kinetic energy; Ch 10) Interactions and potential energy; Ch 11) Impulse and momentum

**Grading policy:** 2 mid-term exams 30% (15% each) + final exam 30% + lab 15% + homework & in-class performance 25%

**Letter grades:** score >85% = A, 85-70% = B, 70-60% = C, 60-45% = D, < 45% = F

**Final exam will be a comprehensive one.**

**Disability and military statements:** If you have a disability please contact Center for Accommodations and Support Services (CASS) *ph:* 747-5148, *email:* [cass@utep.edu](mailto:cass@utep.edu). *Office:* Union East Building, Room 106. Without CASS documentation, no accommodations can be made. Please take care of this before the first exam. 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 the instructor at the beginning of the semester.

**Academic Integrity policy**

<https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>

Dr. Hari Nair, Asst. Professor, Dept. Physics, UTEP