

De Anza College

01802

**PHYS 50** Section: 40

Winter 2023

**Physics 50: Preparatory Physics ( Fundamental Physics of Mechanics)**

In-Person Course: Lecture: M & W 5:30 pm - 7:20 pm Room: S34 Jan 9 - Mar 31

*This Course will be held in-person but we have assignments on Canvas*

**Instructor: James Lincoln** Email: [LincolnJames@fhda.edu](mailto:LincolnJames@fhda.edu)

**Office Hours:** Wednesday 7:20 pm – 8:00 pm or by appointment

Pre-Requisite Courses: MATH D043 (or MATH D043H) and PHYS D010

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**Textbook: Open Stax Online Free eBook.....**<https://openstax.org/details/books/physics>

UNIT 1

- Chapter 1 Introduction
- Chapter 2 Motion in 1 Dimension
- Chapter 3 Acceleration

UNIT 2

- Chapter 4 Forces and Newton’s Laws
- Chapter 5 Motion in 2 Dimension

UNIT 3

- Chapter 6 Circular and Rotational Motion
- Chapter 7 Newton’s Law of Gravitation

UNIT 4

- Chapter 8 Momentum
- Chapter 9 Work-Energy & Simple Machines

**Recommended Texts:** *Conceptual Physics*.....by Paul Hewitt (any edition)  
*Cartoon Guide to Physics*.....by Larry Gonick and Art Huffman

**Course Content:**

This is not a lab course, but we will do some activities during class time.

There will be four exams, including the last one (final). These value 80% of the grade.

There will be weekly assignments, usually packets, sometimes book problems. 20%

**Grading:** normal percentages

90% A-      80% B-      70% C-      60% D-      Below 60% Fail

**Student Learning Outcome(s):**

\*Critically examine new, previously un-encountered problems, analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of mechanics.

**Office Hours:**

W      07:20 PM      08:00 PM      In-Person,By-Appointment      S34