

Basic Physics for Science & Engineering 1

PHYS 0174

4 Credits

Description: This is the first term of a two-term introductory sequence in physics for science and engineering students.

Prerequisite: Calculus is needed and should be taken at least concurrently. The laboratory course associated with this sequence is taken after Physics 0174.

Grading: The grade is determined primarily by three exams during the term and a cumulative final exam. Other work, such as quizzes and homework, may make some contribution to the grade. Approximately half of the class time each week is spent in covering new material. The remaining time is devoted to activities such as problem solving, demonstrating experiments, questions, and discussion.

Textbooks: At the University of Pittsburgh, the latest edition of *Fundamentals of Physics* by Halliday, Resnick, and Walker is used. Any comparable, calculus-based text that covers all of the material in this course outline is acceptable as an alternative.

The following topics should be covered. The order of topics may be altered as long as all of the material listed before each exam is covered before that exam is given.

1. Measurement

- Units of length, time, mass; in particular the SI system
- Unit checking
- Changing units
- Systems of coordinates

2. Vectors

- Vectors vs. scalars
- Magnitude, direction, Cartesian components
- Unit vectors $\mathbf{i}$, $\mathbf{j}$, $\mathbf{k}$
- Addition and subtraction by geometric and algebraic methods
- Multiplication by a scalar
- Scalar (dot) product
- Vector (cross) product

3. Motion along a straight line

- Position and displacement
- Average velocity and average speed
- Instantaneous velocity and instantaneous speed
- Average acceleration and instantaneous acceleration
- Kinematics of constant acceleration
- Freely falling bodies

4. Motion in two and three dimensions

- Position and displacement
- Average velocity and average speed
- Instantaneous velocity and instantaneous speed
- Average acceleration and instantaneous acceleration
- Projectile motion
- Uniform circular motion
- Relative velocity and acceleration (it is sufficient to do only the one-dimensional case)

(continued)

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Karin Nielsen-Saines



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Physics for Scientists and Engineers, Volume 1: Mechanics, Oscillations and Waves; Thermodynamics Paul A. Tipler,Gene Mosca,2003-07-10 This is the standard text for introductory physics courses taken by science and engineering students This edition has been extensively revised with new artwork and updated examples **Basic Engineering Physics** Ernest John Michael Kendall,1964 **Physics 1** Graeme Lofts,Michael Andriessen,2002 *Principles of Engineering Physics 1* Md Nazoor Khan,Simanchala Panigrahi,2017-03-06 Covers the basic principles and theories of engineering physics and offers a balance between theoretical concepts and their applications It is designed as a textbook for an introductory course in engineering physics Beginning with a comprehensive discussion on oscillations and waves with applications in the field of mechanical and electrical engineering it goes on to explain the basic concepts such as Huygen s principle Fresnel s biprism Fraunhofer diffraction and polarization Emphasis has been given to an understanding of the basic concepts and their applications to a number of engineering problems Each topic has been discussed in detail both conceptually and mathematically Pedagogical features including solved problems unsolved exercised and multiple choice questions are interspersed throughout the book This will help undergraduate students of engineering acquire skills for solving difficult problems in quantum mechanics electromagnetism nanoscience energy systems and other engineering disciplines

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Table of Contents Syllabus For Phys 0174 Basic Physics For Science And Engineering 1

1. Understanding the eBook Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - The Rise of Digital Reading Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Personalized Recommendations
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 User Reviews and Ratings

- Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 and Bestseller Lists
- 5. Accessing Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 Free and Paid eBooks
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 Public Domain eBooks
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 eBook Subscription Services
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 Budget-Friendly Options
- 6. Navigating Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 Compatibility with Devices
 - Syllabus For Phys 0174 Basic Physics For Science And Engineering 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Highlighting and Note-Taking Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Interactive Elements Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
- 8. Staying Engaged with Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
- 9. Balancing eBooks and Physical Books Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Setting Reading Goals Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Fact-Checking eBook Content of Syllabus For Phys 0174 Basic Physics For Science And Engineering 1
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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