

## Introductory Physics I Duke University

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### Introductory Physics I Duke University

This physics textbook is designed to support my personal teaching activities at Duke University, in particular teaching its Physics 141/142, 151/152, or 161/162 series (Introductory Physics for life science majors, engineers, or potential physics majors, respectively).

### Introductory Physics I - Duke University

The courses PHYSICS 141L General Physics I: Mechanics and PHYSICS 142L General Physics II: Electricity and Magnetism sequence is intended for students who are taking calculus for the first time or who are not planning to major in physics or engineering. About three quarters of 141L/142L students are interested in the life sciences (for example, biology, psychology, and neurobiology), and many of these students in turn are premeds.

### Introductory Physics Courses - Duke University

Introductory Physics Courses. The Department of Physics offers three sequences of introductory calculus-based courses designed to meet the needs of different majors. The first course in each sequence focuses on "mechanics" which concerns the physical laws that govern the motion of point particles and of rigid macroscopic objects, with some related material on waves, oscillations, thermodynamics, and fluid dynamics.

### Introductory Physics Courses | Department of Physics

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### Class Related Pages - Duke University

Review Problems for Introductory Physics 1 May 20, 2019 Robert G. Brown, Instructor Duke University Physics Department Durham, NC 27708-0305 [rgb@phy.duke.edu](mailto:rgb@phy.duke.edu)

### Review Problems for Introductory Physics 1 - Duke University

The transistor, the integrated circuit, the laser, the world-wide-web and virtually every medical imaging method started as basic physics. In the 1940s, studying the properties of nuclear spin was the height of esoteric science; today it is the basis of magnetic resonance imaging, and can even be used to watch people think.

### Department of Physics - Duke University

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## **Electricity, Magnetism and Optics - Duke University**

material at a rapid, but advanced level – it was developed to support teaching introductory calculus-based physics to potential physics majors, engineers, and other natural science majors at Duke University over a period of more than twenty-five years. Students who hope to succeed in learning physics from this text will need, as a min-

## **Introductory Physics III - Duke University**

Access study documents, get answers to your study questions, and connect with real tutors for PHYS 141 : Introductory Physics I at Duke University.

## **PHYS 141 : Introductory Physics I - Duke**

Mathematics for Introductory Physics is an online, lecture note style textbook provided for the benefit of my physics classes here at Duke. All students or faculty (at Duke or otherwise) who discover it online are welcome to use and peruse this textbook online or as a e-book on their own personal computer for the sole purpose of teaching or learning mathematics and/or physics.

## **Class Related Pages - [webhome.phy.duke.edu](http://webhome.phy.duke.edu)**

Topics include an appreciation of the night sky, properties of light and matter, the solar system, how stars evolve and die, the Milky Way and other galaxies, the evolution of the universe from a hot Big Bang, exotic objects like black holes, and the possibility for extraterrestrial life.

## **Introduction to Astronomy | Department of Physics**

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I have been developing teaching skills while at Duke through teaching assistantships (Introductory Electromagnetism lab sections, Astronomy, and Modern Physics lab sections), the graduate school's ...

## **Ryan Kozlowski - PHD Student - Duke University Physics ...**

3 Department of Physics, Duke University, Durham, NC 27708, USA. 4 Cover Durham, Durham, NC 27701, ... INTRODUCTION. The global spread of coronavirus disease 2019 (COVID-19) in early 2020 has substantially increased the demand for face masks around the world while stimulating research about their efficacy.

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