

Learn English on your Terms

Global View - Physics (C0282)

Prof. Good morning, everybody. Welcome to Brown: Physics 101. My name is Ed Brown, and I will be your professor for this semester. Since to-day is our first class, I wanted to give you an overview of what this course will look like, how you will be graded, and what we will cover this semester.

Matt: Will we be focusing more on theoretical physics or experimental physics, Professor?

Prof. This is an introductory course, and my aim is Brown: to give you a broad overview of the field of physics. The term "physics" encompasses many different areas of research and study, and I hope this course will provide you with conceptual understanding of physics, which will prove useful whether or not you choose to further your study in this field.

Prof. We will begin the course by looking at the fun-Brown: damental concepts of physics, then by the middle of the semester we will begin exploring the more theoretical side of physics. It is essential that you first have a firm grasp of the fundamentals, so that you can better understand the theoretical concepts when we get to them.



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Matt: Will we learn about black holes, wormholes,

and string theory?

Prof. We will learn about the general theory of rel-Brown: ativity, including black holes. We will also explore developing theories in quantum mechanics, such as string theory. We will discuss some hypothetical features of space-time, like wormholes.

Prof. We will also explore some of the more in-Brown: fluential developments in the fields of thermodynamics, electromagnetism, and nuclear physics, all of which have had significant impacts on modern life. Now, I am going to have the TAs pass out the syllabus for this class, so you can see how this course will be graded.

Matt: Oh man, looks like this isn't gonna be the easy A I thought it'd be!

Key Vocabulary

encompass V to include (something)

as a part

conceptual A based on or relating to

ideas or concepts

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grasp N an understanding of

something

black N an invisible area in

hole outer space

quantum N the branch of physics

mechanthat deals with en-

ics ergy and matter on an

atomic level

hypothetical A involving or based on a

suggested idea or the-

ory

thermodynamicsN a science that deals

with the action of heat

electromagnetism a magnetic field that is

produced by a current

of electricity

nuclear N the area of physics

physics which deals with nuclei

Supplementary Vocabulary

academia N the various interests of

a university and those

who teach there

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tower

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applicable A something that can be

used in real-life situa-

tions

gravity N the force of attraction

between two objects

ivory N refers to those who live

in intellectual isolation, often without contact

or applicability to the

outside world

relevant A knowledge that can be

applied to everyday sit-

uations