



carnegie mellons course in physics includes a number of laboratory experiences in which student are able to apply concepts from the course. students are introduced to state-of-the-art instrumentation at the very start of the course, using modern equipment such as the ccd camera to photograph solar eclipses. the laboratory experience also includes a range of current topics, ranging from light-wave phenomena to astrophysics. in addition to giving students an appreciation of the use of scientific tools, the course is intended to be a laboratory experience. the carnegie mellon physics and astronomy track provides a strong foundation in the core physics sequence, as well as a broad range of courses in the department of physics, astronomy, applied physics, and the robotics engineering. students will be expected to demonstrate an understanding of the underlying principles of physics by performing tasks such as designing and building instruments to measure angles and distances. coursework is supplemented by laboratory experiences, and students may complete a minor in another field, such as astronomy, earth science, chemistry, biology, or biochemistry. the carnegie mellon physics/astronomy track offers a range of undergraduate and graduate degree options. students will be required to take a sequence of core courses in physics and astronomy, supplemented by courses in specific areas of interest, as well as other courses in the department of physics, astronomy, and robotics. students will also be expected to demonstrate an understanding of the underlying principles of physics by performing tasks such as designing and building instruments to measure angles and distances. coursework is supplemented by laboratory experiences, and students may complete a minor in another field, such as astronomy, earth science, chemistry, biology, or biochemistry.

physics, one of the basic sciences, has its origin in the irrepressible human curiosity to explore and understand the natural world. this fundamental urge to discover has led to the detailed understanding of a remarkable variety of physical phenomena. our knowledge now encompasses the large-scale movement of galaxies, the minute motions within atoms and nuclei, and the complex structure of the assemblies of molecules that make life possible. the spectacular expansion of our comprehension of the physical world forms an impressive part of the intellectual and cultural heritage of our times. the opportunity to add to this heritage is an important source of motivation for young physicists. the application of discoveries in physics to the solution of complex modern technological problems offers a vast field in which physicists make decisive contributions. the interplay of pure and applied physics has always been fruitful and today ensures many rewarding career opportunities for physics students. the deep understanding of the physical world developed by physics majors prepares them for success in a wide variety of careers well beyond physics, from medicine to all the sciences and engineering. the cengage learning advantage is a subscription benefit for eligible access codes. with the advantage, you have access to all of cengage learning's digital textbooks and learning tools for the duration of your subscription. for more information about the cengage advantage, click here. the minor in physics is designed to provide a solid foundation in physics at the introductory level, followed by elective courses which will familiarize the student with areas of modern physics, and the concepts and techniques employed therein. the physics minor requires seven courses of at least 9 units each, of which four are required and three are electives. 5ec8ef588b

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