

**Physics 10 Syllabus
Lehigh University
Fall 2008**

Course Description:

Statics, dynamics, conservation laws, thermodynamics, kinetic theory of gases, fluids. Primarily for architecture, biological science, earth and environmental science students. Prerequisite: MATH 21, 31, or 51, previously or concurrently.

Course Leader and Lecture Instructor:

Professor H. Daniel Ou-Yang

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Recitation Teacher:

Dr. Paola Cereghetti (cereghetti@lehigh.edu)

Textbook: General Physics, Sternheim and Kane, second edition, John Wiley & Sons [ISBN 0-471-52278-3]

Scope of the course: The course is a calculus based introductory physics course. It contains the first four units of the book.

Unit one: The general laws of motion

Unit two: Additional topics in mechanics

Unit three: Heat

Unit four: Fluids