WILMINGTON UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
BASIC COURSE INFORMATION

COURSE TITLE: Conceptual Physics (with Lab)

COURSE NUMBER: SCI 110

I. COURSE OBJECTIVES:

Upon completion of this course the student will:

1. Learn fundamental principles, generalizations, or theories
2. Gain factual knowledge (terminology, classifications, methods, trends)
3. Learn to apply course material (to improve thinking, problem solving, and decisions)

Upon completion of the course, the student will demonstrate an understanding of the following:

I. Laboratory Safety and the Scientific Method

II. Motion
   A. Speed, velocity and acceleration
   B. Falling objects and projectile motion
   C. Force and Newton’s Laws of Motion

III. Matter and Energy
   A. Energy and oscillations
   B. Fluids
   C. Temperature and heat

IV. Electricity and Magnetism
   A. Electrostatic phenomenon
   B. Electric circuits and Ohm’s Law
   C. Magnets and electromagnetism

V. Wave Energy (Light and Sound)
   A. Properties of Waves
   B. Sound
   C. Light and image formation

VI. The Atom
A. Structure of the atom
B. The nucleus and nuclear energy
C. Semiconductors and microelectronics

EVALUATION PROCEDURE AND GRADING POLICY:

LATE ASSIGNMENT POLICY:

CAS CLASSROOM STANDARDS: See Blackboard “Syllabus” area

COURSE SCHEDULE (all assignments/exams and due dates):