



NORTHWEST FLORIDA STATE COLLEGE

Course Syllabus

Course Name: General Physics w/o Calculus
Course Number: PHY1053C
Section: 10603
Credit Hours: 4
Instructor Name: Dr. Christopher Sweeney
Instructor Office Location: 350/209 Niceville Campus
Instructor Email: sweeneyc@nwfsc.edu

Course Curriculum

This course is the first in a two-part series intended for non-physics majors, offering an algebra and trigonometry approach to topics such as kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. The course fosters analytical and critical thinking skills to promote a scientific understanding of the real world.

Goals

Include broad learning goals such as "Students will develop an appreciation of the different genres of classical art."

Objectives

Student Learning Outcomes:

- *Students will solve analytical problems describing different types of motion, including translational, rotational, and simple harmonic motion using algebra and trigonometry.*
- *Students will apply Newton's laws, and conservation laws by using algebra and trigonometry to solve analytical problems of mechanics.*
- *Students will identify and analyze relevant information presented in various formats such as graphs, tables, diagrams, and/or mathematical formulations.*
- *Students will solve real world problems using critical thinking skills and knowledge Developed from this course.*

Student Expectations of the Course

Include what experiences students might expect to have as part of the course. Examples: The instructor will be available outside of class to answer questions. Participation is required.

How Student Performance Will be Measured

How the instructor plans to measure student performance (essays, in-class assignments, multiple choice exams, etc.)