



Faculty Name:	
Course Information:	INTRODUCTION TO PHYSICS I: SCI 161
Course Section, Term and Year:	
Course Meeting Times & Location:	

Contact:

Phone Number:	
Office Location:	
Email address:	
Enter days/time you are available to meet with students.	

Netiquette

Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end interpret the words?

Communication:

Faculty Communication with Students:

Discuss how faculty will contact students.

Student Communication with Faculty:

Discuss how students will contact faculty when they have questions or concerns.

Course Description:

SCI 161 Introduction to Physics I

2-3-3

This is one of a two-course sequence in physics, designed for technology students and other non-science majors. The course uses lecture, supported by laboratory investigation, to achieve a hands-on, practical approach to understanding important concepts and the physical laws of nature. Topics include quantitative methods for describing motion; Newton's three laws of motion and their applications; Newton's law of gravitation and its applications; work, power, and energy; momentum methods for analysis of collisions and explosions; and torque and rotational motion. *Prerequisite: High School Algebra, MAT 040 or equivalent, or permission of Instructor. General Education: N.*

Course Learning Outcomes:

Students will be able to:

- Demonstrate an understanding of the principles of scientific inquiry: recognize the importance of making measurements in the study of science; list some of the steps in the scientific method; distinguish among a scientific fact, hypothesis, theory, principle, and law; evaluate the credibility of scientific information from various sources.
- Demonstrate the ability to think critically and employ critical thinking skills in solving problems in mechanics: 1-D kinematics, dynamics, linear momentum, energy, rotational motion, and gravity.
- Demonstrate the quantitative skills needed to succeed in an algebra-based physics course.
- Demonstrate an understanding of the impact of physics on society.
- Demonstrate the ability to make connections between concepts across physics.
- Draw, read and interpret graphs and data.
- Demonstrate the safe and proper use of physics instrumentation in the physics laboratory to make careful observations and measurements, organize data, provide analysis and synthesis of observations and data, and present laboratory reports that are well organized and well written.

General Education Learning Outcomes:

Students will demonstrate the following:

- Understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis; and
- Application of scientific data, concepts, and models in one of the natural sciences.

Program Learning Outcomes:

Students will:

- Demonstrate the safe and proper use of scientific instrumentation, measuring devices, chemical reagents, media, and/or tools of science in a laboratory setting.
- Demonstrate communication, problem solving and critical thinking skills pertinent in the healthcare sector.
- Understand and utilize scientific method.

- Promote health and wellness among members of the college and/or local communities through service learning.

Course Resources:

Textbook:	Enter title, edition, author, ISBN for required text.
Materials:	Enter all additional required materials and tools needed to complete course here.
Access:	List access codes needed for websites or other software. .

Course Policies:

Click here to describe how students will participate in your class. Include policies regarding missed exams, makeup exams, extra credit assignments, late assignments, missed assignments, etc.

Course Delivery:

Course Content:

Lecture Format:

Student Expectations specific to this course:

Course Outline and Schedule

Grading Method:

Click here to enter a clear explanation of how students will be evaluated, including a description of course assessments and a statement of the assessment process and measurements. Include weight/percentages for quizzes, exams, papers, projects, homework, attendance, participation, etc.

Grading Scale:

Letter	Grade Range
A	Enter range for A.
A-	Enter range for A-.
B+	Enter range for B+.
B	Enter range for B.
B-	Enter range for B-.
C+	Enter range for C+.
C	Enter range for C.
D	Enter range for D.
F	Enter range for F.

Earn an FMCC Micro-credential Badge:

Check this link to see if this course meets a requirement for an FM Micro-credential Badge:

<https://www.credly.com/organizations/fulton-montgomery-community-college/badges>