SCOTTSDALE COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

Course Information

Semester & Year:	Spring 2024
Course Title:	Introduction to Physics
Course Prefix & Number:	PHY 101 Lec/Lab
Section Number:	15616 and 15617
Credit Hours:	4
Start Date:	01/29/2024
End Date:	05/10/2024
Room Number:	NS 402
Meeting Days:	Mon/Wed
Meeting Times:	1:30 pm – 4:30 pm

Course Format

The course format for this course is In Person.

Instructor Information

Instructor:	Kirticia Jarrett
Email:	kirticia.jarrett@scottsdalecc.edu
Phone:	480-423-6122
Office Location:	NS 128
Office Hours:	Monday and Tuesday 12:00 pm -1:00 pm
	Wednesday and Thursday 8:00 am - 9:00 am
	Friday 11:00am-12:00pm on Zoom by Appt

Course Description

A survey of physics emphasizing applications of physics to modern life.

Prerequisites

A grade of C or better in MAT090 or higher level mathematics course or eligibility for MAT120 or higher as indicated by appropriate placement.

Course Competencies

1. Apply appropriate problem solving techniques to physical phenomena to develop hypotheses design experiments, collect and analyze data, and to draw inferences from the evidence. (I, II, III, IV, V)

2. Effectively communicate qualitative and quantitative information orally and in writing. (I, II, III, IV, V)

3. Explain historical and current contexts for the principles and applications of physics. (I, II, III, IV, V)

4. Explain the application of fundamental physical principles to various physical phenomena. (I, II, III, IV, V)

5. Estimate realistic values for practical problems. (I, II, III, IV, V)

6. Work effectively in collaborative groups to solve practical and meaningful problems. (I, II, III, IV, V)

Texts and Course Materials

You may choose from either of the textbooks below, there will be no assignments specific to the text.

Optional: Physics (w/Access Card)

ISBN: 9780538735391

Cost $97

Optional: Openstax Physics

https://openstax.org/details/books/physics

Required:

Calculator: You will need a calculator with scientific capabilities (powers, trig functions, logarithms). Please bring this with you to EVERY class.

Course Technologies

View the Accessibility Statements & Privacy Policies of technologies used in this course.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.

- Canvas Learning Management System
- Student Maricopa Gmail Account
- Maricopa Open Educational Resource Learning System (MOER)

Student Assignment Tools

This course requires students to participate in or submit assignments using desktop or cloud-based applications.

- Google Products
- Microsoft Office 365
- Logger Pro - This is a program we will use on and off during the semester to process data from labs. There is a document in our Canvas course (and on google classroom) about downloading the software for your platform. Please note that it doesn't work on phones nor Chromebooks, only MacOS or Windows.

Plagiarism Checker Tool (Turnitin)

Turnitin is a plagiarism check tool that matches text to a vast database of sources including the internet, published works, commercial databases and student work submitted to Turnitin in institutions internationally. Students must submit designated papers to Turnitin when instructed. Information and instructions for Turnitin are provided in the course. For your reference, read the Turnitin Terms of Service.

Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the Student Regulations page of the Maricopa Community College District website.

Generative Artificial Intelligence (AI) Policy

Opening Statement Regarding Generative Artificial Intelligence (AI)

The World Economic Forum defines generative AI as “a category of artificial intelligence (AI) algorithms that generate new outputs based on the data they have been trained on. Unlike traditional AI systems that are designed to recognize patterns and make predictions, generative AI creates new content in the form of images, text, audio, and more.”

Some examples of generative AI tools include but are not limited to: ChatGPT, Google Bard, Microsoft Copilot, Stable Diffusion, GrammarlyGo, and Adobe Firefly.

Grading Standards & Practices

Your grade will be calculated based on 3 categories Practice, Practical Work, and Assessments.

Practice: This includes typical homework, classwork, practice problems. All assignments in this category are to be turned in at the beginning of the class in which they are due.

Practical Work: This includes lab activities, lab write-ups, lab extensions, and weekly journals. All assignments in this category are to be turned in at the beginning of the class in which they are due.

Assessments: This category includes weekly quizzes and two major projects as end of unit assessments. The first project will be introduced on the 2nd day of class, giving you plenty of time to prepare and work on the project.

Your grade will be calculated based on the following percentages:

Practice	15%
Practical Work	35%
Assessment	50%

Late work policy - Work submitted late will have a deduction taken off as follows:

0.00001 - 24 hours late – 25% off

24.00001 - 48 hours late – 50% off

48.00001 - 72 hours late – 75% off

More than 72 hours late – 0 points

Grade Scale

Letter Grade	Points Range
A	88 – 100%
B	75 – 87.9%
C	62 – 74.9%
D	50 – 61.9%
F	Below 50%

Response Time

Students can expect a response time of 2 days (excluding weekends and holidays) for the instructor to respond to messages sent via the Canvas Learning Management System or email. Students can expect assignments to be graded within 1 week of the assignment's due date.

Attendance Policy

You can miss 3 classes for "free" after that each class you miss will cost you a letter grade for the semester. Official absences don't apply to this. If you miss two classes in a row, I will contact you about why you missed class (if you don't let me know first).

After 7 absences you will be dropped from the course for excessive absences.

Instructional Contact Hours (Seat Time)

This is a four (4) credit-hour course. Plan to spend at least 5.5 hours on course content or seat time (direct instruction including labs) and 6-8 hours on homework weekly. This is an average; some weeks will be less and others may be more.

Online Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the Tutoring & Learning

Centers page for detailed information on the five learning center's hours and procedures.

As much as possible, it is highly recommended that you utilize SCC tutors since they are more familiar with SCC coursework, instructor expectations, and assignments; however, if you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. Brainfuse provides online tutoring in a variety of academic subjects. Each student may utilize up to 6 hours of online tutoring through Brainfuse per semester, and has the option of requesting additional time if needed.

To access Brainfuse and begin working with a tutor:

1. Visit the SCC Online Tutoring Services Through Brainfuse page (https://www.scottsdalecc.edu/students/tutoring/online-tutoring)
2. Click the **Visit a tutor online** button
3. Enter your MEID and password
4. Choose your topic and subject
5. Click the **Connect** button

Please use your time effectively and be prepared with your questions before you connect to a tutor. Tutors and students communicate in real-time so whatever you type, draw, or share on the screen, the tutor sees, and vice versa. You may also want to have screenshots ready if applicable. All Brainfuse sessions are recorded for review later.

Learning Tools and Your Privacy and Security

SCC utilizes a variety of software applications and web-based tools operated by third party vendors to support student learning. To allow student access to the application, site or tool, certain identifiable information may be required to establish a user name or password, and submit work and/or download information from these tools. Inherent with all internet-based tools, there is a risk that individuals assume when electing to use these tools, as they may place information at risk of disclosure.

To use learning tools responsibly, please observe all laws and the Maricopa Community College District Student Conduct Code, such as copyright infringement, plagiarism, harassment or interference with the underlying technical code of the software. As a student using a learning tool, you have certain rights. Any original work that you produce belongs to you as a matter of copyright law. You also have a right to the privacy of your educational records. Your contributions to learning tools constitute an educational record. By using the tool, and not taking other options available to you in

this course equivalent to this assignment that would not be posted publicly on the internet, you consent to the collaborative use of this material as well as to the disclosure of it in this course and potentially for the use of future courses.

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.