

INTRODUCTORY PHYSICS SYLLABUS

MICHAEL BUTROS

SPRING 2022

COURSE INFORMATION

Section Number: 83583

Course Number and Title: Physics 100 - Introductory Physics

Lecture Days and Times: Online on CANVAS

Lab Day and Times: Thursday 8:00 - 11:10 AM

INSTRUCTOR INFORMATION

Name: Michael Butros

Office: Science Building - Room 14

Office Hours:

Monday and Wednesday - 2:30 - 4:00 PM

Thursday - 10:00 - 11:00 AM

Phone: 760.245.4271 Ext. 2506

E-mail: Michael.Butros@vvc.edu

Instructor's Page: <https://www.butros.info>

IMPORTANT DATES:

Semester Begins: February 14, 2022

Lincoln Day Holiday: February 18, 2022

Washington Day Holiday: February 21, 2022

Spring Break: April 11-15, 2022

Memorial Day Holiday: May 30, 2022

Semester End: June 11, 2022

GENERAL CLASS INFORMATION:

Prerequisites: Elementary Algebra with a grade of “C” or better.

Textbook: The textbook will be linked within CANVAS.

There is an online component to this class through the CANVAS course management system.

Course Description: This course covers an introduction to general physics for students who have not had physics, or who have not had physics recently. Fundamental principles of mechanics, waves, heat, electricity and magnetism, light, atomic and nuclear physics are covered.

Student Learning Outcomes:

Upon completion of the course the student can:

- Correctly analyze natural phenomena using the concepts of physics.
- Clearly communicate conceptual analyses using the language of physics.
- Test and analyze physical phenomena experimentally using appropriate equipment and methods, and make valid comparisons with theoretical predictions.

Course Content:

The following topics will be covered in lecture

- Motion
- Newton’s Laws of Motion
- Newton’s Law of Universal Gravitation
- Linear Momentum and its Conservation
- Energy and its Conservation
- The Structure of Matter and its States
- Heat Energy
- Oscillations and Waves
- Light
- Electricity
- Magnetism
- Atomic Theory
- Nuclear Theory

Potential experiments to be performed and analyzed may include:

- Measurement of Length and Mass
- Acceleration Due to Gravity
- Newton's Laws
- Momentum
- Conservation of Energy
- Electricity and Magnetism
- Optics

Grading Policy:

The grading for this class will consist of the following components:

Component	Percentage of Final Grade
Online Assignments	30 %
Lab Reports	10 %
Exam One	20 %
Exam Two	20 %
Exam Three	20 %

The final grade will be earned according to the following scale:

Total Percentage	Final Grade Earned
90 - 100 %	A
80 - 89 %	B
70 - 79 %	C
60 - 69 %	D
0 - 59 %	F

Attendance Policy: A student may drop or withdraw (or be dropped by an instructor), before the 44% point of the completion of the class. Students may not drop or be dropped after this point, and instructors must issue a grade beyond this point. A student who drops a class (or who is dropped by an instructor) on or prior to 20% of the course will have no record of that class on their permanent transcript, although they may still be responsible for payment of fees. Drops that occur after 20% of the course, and on or before 44% of a course, will result in a W symbol being entered. Students may be dropped for lack of attendance or for 'good cause' as defined in the Education Code, Article 3, Sect. 76033.

You are not graded on "attendance" in this online course. Students who do not complete the first assignment or do not contact the instructor by the end of the third week of the 16-week term will be dropped. Students who do not actively participate in this online course will be dropped up to the final drop date. For more information on 'active engagement', see the definition below.

Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently

recorded grade based upon uniform standards in accordance with section 55758 of this Division.

The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students. (Educational Code)

Definition of Distance Education ‘No Show’ Students: DE Students will be dropped as ‘no shows’ if their online activity before the census date consists of solely logging into the online course platform without actively engaging in academic related activity (such as online discussions).

Definition of ‘Last Day of Attendance’ (LDA) for excessive absences of online students: Faculty policy regarding dropping students for excessive absences in an online course should be based on the last recorded academic activity of the student after (such as one full week of non-engagement by the student). Per an individual instructor’s syllabus and course materials, students should be informed of the instructor’s guidelines on withdrawal from an online course and the necessity of actively engaging in academic activity. Students should be informed that ‘active engagement’ is not simply accessing the online course platform, but entails evidence of participation in online assignments as well as regular and substantive interaction between students and faculty.

NETIQUETTE

Netiquette/Etiquette ... it’s all in your words! Netiquette refers to “Etiquette”, or proper way to conduct yourself, on the Internet.

Email Netiquette

- Always include a subject line
- Include your course number and section in your email. Your instructor may teach multiple courses and will have many students, so the more specific you are, the better and easier it will be for your instructor.
- Remember, without facial expressions, some comments may be taken the wrong way. Be careful in wording your emails. Use standard fonts for easy readability. Avoid special formatting such as centering, audio messages, tables, HTML, etc. unless necessary to complete an assignment or communication.
- Do not send large attachments without permission.
- Respect the privacy of other class members and always be courteous.
- Include your name at the bottom of Email messages.
- Never assume your email messages are private nor that they can be read by only yourself or the recipient. Never send something that you would mind seeing on the evening news. Be professional and careful what you say about others. Email is easily forwarded.

Discussion/Group Chat Netiquette

- You may have to make an original post before you can view others’ posts and responses

- Always make a well thought out post or response (not "I agree!" or "Ditto")
- Maintain threads by using the "Reply" button rather than starting a new topic unless required by your instructor.
- Do not make insulting or inflammatory statements to other members of the discussion group.
- Be respectful of others ideas and comments.
- Be cooperative with group leaders in completing assigned tasks.
- Be positive and constructive in group discussions.
- Respond in a thoughtful and timely manner.

Other Netiquette Tips

- Are there appropriate and 'not-so-appropriate' ways to communicate on the Web? Yes. Don't say anything you wouldn't say to a person's face or that you wouldn't mind having ANYONE read. Just as when you write a letter, when you send written words through cyberspace –via email or on discussion groups – you have no control over where they go or who will see them.
- Remember you are talking to a person ... not a computer. It's easy to forget that there is a person on the other end of the email or discussion group when you're sitting alone typing at your computer. Be clear with your words. It's easy for someone to misinterpret your meaning. They can't see your expressions or hear the tone of your voice.
- Don't expect instant responses.
- Capitalize words only to highlight an important point or to distinguish a title or heading. Capitalizing whole words that are not titles is generally termed as SHOUTING!
- Never give your username or password to another person.
- Focus on one subject per message and always include a pertinent subject title for the message, that way the user can locate the message quickly.
- *Asterisks* surrounding a word can be used to make a stronger point.
- Cite all quotes, references and sources and respect copyright and license agreements.
- Be careful when using sarcasm and humor. Without face to face communications your joke may be viewed as criticism.