Instructor: Jay Bhalerao  jbhalerao@dcccd.edu
Physics classroom and lab: W16
Credit Hours: 4
Office Hours: by email

Meeting Days & Time: online lectures and labs.

Division: STEM
Office: STEM Division Office, Office Hours: 8:00 AM-5:00 PM
Office Phone: (214) 860-8760
Office Location: W147

Physics is “The mystery of being!”

"We each exist for but a short time, and in that time explore but a small part of the whole universe. But humans are a curious species. We wonder, we seek answers. Living in this vast world that is by turns kind and cruel, and gazing at the immense heavens above, people have always asked a multitude of questions: How does the universe behave? What is the nature of reality? Where did all this come from? Did the universe need a creator? Most of us do not spend most of our time worrying about these questions, but almost all of us worry about them some of the time.
Why is there something rather than nothing?
Why do we exist?
Why this particular set of laws and not some other"
Steven Hawking

Course Description: A survey of Physics for liberal arts and other non-science majors. Topics include mechanics, energy conservation, atomic nature of matter and thermodynamics. The history of scientific developments and their impact on daily life are discussed. Also included are laboratory experiments that emphasize a conceptual understanding of Physics. (3 Lec., 3 Lab.)
Course prerequisites: One of the following must be met:
(1) Developmental Reading 0093 AND Developmental Writing 0093;
(2) English as a Second Language (ESOL) 0044 AND 0054; or
(3) Have met Texas Success Initiative (TSI) Reading and Writing standards.

Course procedure

♥ The lecture and lab will be delivered to you through internet using two portals: Blackboard on the DCCD district eCampus server and the publisher’s website: masteringphysics.com. For many of you, this may be your first online (or Internet) course. You do not need to be a computer whiz to be successful in this course. From a computer standpoint, absolutely everything is simple. By the time you review all the documents posted on (ecampus.dcccd.edu) and (masteringphysics.com,) you will know almost everything needed to be successful in this course. It is critical that you read and review everything in both systems.

♥ This is a web-based course, but I am easily accessible by email whenever help is required.

♥ I'd like to remind you this is NOT a self-paced online course with all assignments due at the end of the semester. This course includes daily assignments and weekly deadlines scheduled throughout the semester. Students need to follow this schedule since all late assignments are penalized.

♥ Please verify your eCampus email address to ensure that you receive my emails.

Course Materials/Supplies Needed:
Note: this course is completely online, you do not need to come to campus. A few extra credit activities may be held on campus during the semester, but they are optional. You are required, however, to complete assignments on eCampus (Blackboard) every week. No lab kit is required for this course. A few inexpensive items are needed for some labs, but these can be found at home or at the Dollar store.

1- Textbook and Access Code:

ISBN- 0133857417 \ By Paul G. Hewitt\ Published by Pearson Addison-Wesley
The above item includes the hard copy of the book, the eText and the access code to masteringphysics.com

If you prefer a loose leaf (3-hole punch) version of the book, where the pages are not bound + eText + Access Code: ISBN: 0133913961
Loose leaf (3-hole punch) version of the book only (no access code): ISBN: 0321909798

Hard copy bound book only (no access code): ISBN: 0321909100

If you do not need the hard copy of the book and can read it online instead, you can just buy the electronic copy of the text book (eText) plus the access code: ISBN: 9780321940650

If you just need the access code for the homework: ISBN: 9780321939753

The masteringphysics access code to this particular text book is good for 24 months. If you need to take PHYS 1407 later you can use the same access code since both courses use the same text book.

*Note: you are required to have the access code to the 12th edition of the textbook at mastering physics, but you may use an older edition of the text book for the other parts of the course.

**Important Step:**

*Please purchase the access key for the homework from the course page on eCampus by clicking on the “Mastering Physics HW” button.*

You do not need a course ID to purchase the access key, the process has been made easier by allowing you to connect directly from within eCampus.

Just for your information, the course ID, name and description are:

**Course ID:** bhalerao20433

**Course Name:** PHYS140563400SP2019

**Course Description:** PHYS 1405 63400 Spring 2019

**Please be careful not to enroll in the wrong class, and keep all your receipts!**

**2- Lab Experiments:**

This folder on eCampus includes all the labs for this class. These labs are in a variety of formats:

**Practical Labs:** no lab kit is required for this course. Some labs need a few supplies, but these are inexpensive and can be found at home or at the Dollar store.

**Virtual labs** in which you will use interactive figures in the "Study area" of masteringphysics.com, and other similar online animation software.

**3 – Project:**

You are required to submit a semester project that includes an essay,
PowerPoint slides and a recorded video presentation. Instructions for the project will be posted on eCampus.

Reading and homework assignments:

The course portal for our online class is a course shell on Blackboard (ecampus.dcccd.edu). You will find all the due dates for various assignments in their corresponding folders such as: Reading assignments, HW assignments, Lab assignments, Project etc.

You will also be using "masteringphysics.com" which is the "course management system" provided by the publisher in order to work on different types of assignments. Please read the course materials section to learn how to register for the class at: Masteringphysics (MP).

You **MUST** accomplish the following reading and preparation assignments on a regular basis **before** attempting to tackle your weekly assignments:

1. Read the assigned chapter contents in the text book.

2- Study and review the lecture and power points questions.

3. Watch, observe, review, and study the videos, animations, and interactive figures in the Study area for each chapter on Masteringphysics.

4- Complete a quiz for each chapter on eCampus.

5- Complete and submit homework for each chapter in the “Assignments” folder on Mastering Physics. Your final homework grades will be transferred to the eCampus grade book at the end of semester.

6- Perform practical labs or virtual labs each week and submit your lab reports on eCampus.

7: Complete and submit the assigned semester project. Instructions will be posted under the Project tab on eCampus.

**Core Objectives:**

**Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

**Core objective assignments and measurements:**

**Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
**Communication Skills** - to include effective development, interpretation and expression of ideas through written, oral and visual communication.

**Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

**Course Outline:**

* Newton's First Law and Linear Motion
* Newton's Second and Third Laws of Motion
* Momentum and Energy
* Rotational Motion
* Gravity and Projectiles
* The Atomic Nature of Matter and Solids
* Change of phase
* Thermodynamics

**Course Evaluation:**

♥ Homework on masteringphysics.com and problem solving = 30%
♥ Labs and Activities = 25%
♥ Project = 30%
♥ Quizzes = 15%

Grading Scale: 90 & above = A, 80-89 = B, 70-79 = C, 60-69 = D, 59 & below = F

**Certification Procedures**

Students must login and post a self-introduction on eCampus by the end of the first week as a proof of attendance. No exceptions. Financial Aid will be withheld from students who have not attended by the certification date. For this online course, you also MUST submit your first week’s assignments by the due date for attendance certification, this will approve you for Financial Aid. For certification dates, please check with the Financial Aid Office. Students who are not certified for attendance are responsible for any payments due as a result of non-certification, which includes dropped courses.

**Instructor Attendance Policy:**

Students are expected to submit all assignments by the due dates. Students have the responsibility to follow the due dates for the assignments and to consult with the instructor when an emergency occurs. If for some reason you cannot complete your assignments by the due date, you MUST inform the instructor at least two days before assignments are due. (Please see late work policy).
**Group Work Opportunity:**

♥ I strongly encourage you to work on assignments in groups of **up to two**.
♥ You may post your information in the Discussions folder on eCampus to find a classmate to work with in a group.
♥ **Rules for groups**: each group will be in contact with each other via email, telephone etc. While working on assignments:

- You will help each other with labs, homework, the project etc.
- Each person MUST submit his or her work to their own folder on eCampus or Masteringphysics. There will be no grade if the assignment has not been submitted, even if your partner has submitted his/her assignment.
- Each person is accountable. When one member of the group experiences lack of cooperation from the partner, she or he can work individually. Please email me to report such a situation.

**Late Work Policy:** All late assignments will be penalized 10% per late day. NO exceptions.

**The last day to withdraw from this class is 17 April 2019.**

**Institutional Policies:** Please visit [www.mountainviewcollege.edu/syllabipolicies](http://www.mountainviewcollege.edu/syllabipolicies) for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Honesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus, Emergency Operation Plan and Contingency Plan).

**Course Calendar**

All the due dates for various assignments such as homework, labs, projects, quizzes are listed on the eCampus and masteringphysics websites.
<table>
<thead>
<tr>
<th>Institutional Policies</th>
<th>Mountain View College Syllabi Information</th>
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<tr>
<td><strong>Stop Before You Drop 6Drop</strong></td>
<td>For students who enrolled in college level courses for the first time in the Fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career, unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. <strong>Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W.”</strong> Therefore, please exercise caution when dropping courses in any Texas Public Institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: <a href="https://econnect.dcccd.edu/eConnect/droppingfacts.html">https://econnect.dcccd.edu/eConnect/droppingfacts.html</a></td>
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| Withdraw Policy | If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by the official drop date for this course (see Course Drop Date mentioned earlier in this syllabus). Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. |

| Repeating a Course | Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at: [http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx](http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx) |

| Financial Aid | Financial Aid **will not** be granted to students who have been certified as not attending by the certification date. In lecture classes, students must attend class prior to the certification date. Online students should follow the certification procedures as noted within the class syllabus. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses. Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy. If you are receiving financial aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds. |

| Academic Dishonesty | Students caught plagiarizing will be subject to an “F” in the course with possible expulsion from college. **Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance** |
of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at [https://www1.dcccd.edu/catalog/ss/code.cfm](https://www1.dcccd.edu/catalog/ss/code.cfm)

| ADA Statement | Mountain View College and the Office of Special Services are committed to upholding the laws and the spirit of Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) signed in 1990. |
| Religious Holidays | Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence. |
| Campus Emergency Operation Plan and Contingency Plan. | Mountain View College has developed policies and procedures for dealing with emergencies that may occur on campus. A synopsis of emergency procedures can be found at: [http://www.mountainviewcollege.edu/business/police/Pages/emergencyprocedureenglish.aspx](http://www.mountainviewcollege.edu/business/police/Pages/emergencyprocedureenglish.aspx). **Contingency Plan:** Mountain View College has developed an Instructional Contingency Plan for Temporary College Closing for On-Campus Courses. Please discuss this contingency plan with your instructor. For distance learning courses, your instructor will use email to contact students in the event of extended technology downtime. To assure work in the class continues, it is important for all students to have an accurate email address recorded in both eCampus and eConnect. |
| Disclaimer Reserving Right to Change Syllabus | The instructor reserves the right to amend a syllabus as necessary. |