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:**
This course is primarily for non-science majors. It is a study of the basic principles and concepts of physics, chemistry, and nuclear science. These three basic sciences are related to the physical world at the introductory level.

**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:**
Lectures and assignments will be delivered to you through ecampus portal: the blackboard on the DCCD district ecampus server (ecampus.dcccd.edu). For many of you, this may be your first on line (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) you'll know almost everything needed to be successful in this course. **(It is critical that you read and review all the folders under all the tabs on ecampus.)**
♥This is a web-based course, i.e. this is 100% online course, but I am easily accessible whenever help is required.

In your email, make sure you **include your course number (i.e. 1415) and your full name in the subject box.**

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

You need to check your email and the announcement folder on a daily basis for any new information.

**Course Material:**
You are required to purchase **the access key** for the following text book. The image of the textbook helps you to select the right book.
There is a Button on ecampus (black board) called Mastering Physics that takes you to mastering website and assignments. You should purchase the access key on this site. You do NOT need an ID number for the class on mastering anymore.

I have posted a handout about how to obtain an access key under the “Start Here” button on ecampus.

Please note that you are required to purchase the access key for mastering for this book. But you can use any old or new edition of a physical science text book or ebook.

**Lab Assignments:** Lab instruction will be posted under the Lab Assignments folder for each unit of lessons. There will be virtual labs, practical labs, and short project activities. I will give you a list of items for practical labs that you should be able to easily find them in local stores, such as Walmart, radio shack or any hardware /electronic store,

Please ensure you have Java and Adobe Flash Player installed on your computer, and you are using the latest version of your browser.

**Course Outline:**
Unit 1- Units of Measurement and the Scale of Universe
Unit 2- Mechanics: Motion-Newton’s Laws of Motions, Momentum and Energy, Gravity, and Fluid Mechanics. Unit 3- Thermodynamics
Unit 4- Electricity and Magnetism
Unit 5- Waves, Sound, and Light
Unit 6- Atoms and Radioactivity
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 Evaluation- and Due Dates

Please add a short introduction about yourself by Tuesday night in “Virtual Classroom” to receive credit for one homework grade. You can post your introduction after Tuesday night but you will not receive any credit.

Tuesday, December 18, by 11:59PM
Introduction in Virtual Classroom:

Wednesday, December 19, by 11:59PM
Making a group:

Thursday, December 20, by 11:59PM
Quiz on syllabus under Syllabus Tab on ecampus (blackboard)

<table>
<thead>
<tr>
<th>Homework / Labs and Activities / quizzes</th>
<th>Due date by 11:59PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1-Units of Measurement and The Scale of the Universe</td>
<td>Sunday, Dec.30</td>
</tr>
<tr>
<td>Unit 2- Mechanics</td>
<td>Sunday, Dec 30</td>
</tr>
<tr>
<td>Unit 3-Thermodynamics</td>
<td>Sunday, Dec.30</td>
</tr>
<tr>
<td>Unit 4 –Electricity and Magnetism</td>
<td>Thursday, Jan 10</td>
</tr>
<tr>
<td>Unit 5- waves, sound, and light</td>
<td>Thursday, Jan 10</td>
</tr>
<tr>
<td>Unit 6- Atoms and Radioactivity</td>
<td>Thursday, Jan 10</td>
</tr>
<tr>
<td>Project-Building an electric motor</td>
<td>Thursday, Jan 10</td>
</tr>
</tbody>
</table>

Course evaluation:
Homework 30%
Lab 30%
Project 25%
Quiz 15%
**The instruction for each category is in the corresponding folder on ecampus**

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

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

**Late Work Policy**: Absolutely No late Assignment, NO exception.

**Lessons and Assignments- Units on ecampus**:

Assignment that you will turn in are: Home works, Virtual, practical Labs and activities, and a semester projects. All these assignments are listed under each unit with a due date. As you read each unit and open the various links under the unit, you will learn about all these assignments. It is straightforward, and you can always email your questions or you also can contact your classmates through discussion board/email/ call/meeting.

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

1- Read the assigned contents in any physical Science text book.
2- Study and review the lecture and power points questions posted for each unit on ecampus.
3- Watch, Observe, review, and study the videos, animations, and interactive figures in the Study area for each chapter on Mastering Physics.
4- Complete and submit homework for each chapter (or unit) in the “Assignment” folder on Mastering Physics. Your final grades will be transferred to the ecampus grade book at the end of semester.
5- Perform a practical / virtual lab / short activities for each unit and complete the lab report. For a few labs and the project you are required to purchase a few lab material which are relatively cheap.
6- Watch assigned lecture videos on khanacademy.org. These are for your own learning.
7- Project - see its folder on ecampus.

**Group work opportunity**: Please see the due dates in the syllabus folder on ecampus. Working on assignments is easier if you work in groups. However, please limit group sizes to a maximum of 3 people per group.

Rules for groups: Each group will be in contact with each other via email, telephone, etc... Each person MUST submit his or her work to its own folder. 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 partner, she or he can work individually. Please email me to report such a situation.

**Virtual classroom:** Please see the due dates in the syllabus folder on ecampus.

To help you find someone you would like to work with, please introduce yourself and please provide relevant contact information. You can post this information under this "Introductions" forum by creating and editing your own threads. Please note that all communication and posts must follow proper academic **classroom etiquette**. Your posts should include the following:

1- **First and last name:**

2- **Email address:**

3- **Telephone (optional):**

4- **Major:**

5- **Any other information you would like to share with the instructor and classmates** such as your preferred time for working on assignments etc.

6- **Attach photo of yourself (optional)**

Please complete these introductions before the 2nd day of class. These introductions will earn one homework grade. Please see the due dates in the syllabus folder.

**Responsibility of College Learner:**

As a student in this college course, it is your responsibility to have necessary course materials and to locate a computer with reliable internet access. Computer and internet issues/problems not associated with the eCampus and Mastering websites, technical issues or downtime will not be considered exceptions to the late work and makeup exam policies. It is also your responsibility to have the necessary course materials to complete the assignments. **You will not receive extensions on assignments or tests due to financial issues, not receiving mastering physics by the start of class, or personal computer issues.** Please plan ahead and do not wait until the last minute to complete assignments or tests.
Institution Policies:
Please visit 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; Harassment, Discrimination and Sexual Misconduct, Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.)