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

♥The lecture and lab will be delivered to you through internet using two portals: the
blackboard on the DCCD district ecampus server and the publisher website; mastering
astroonmy.com. 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) and (mastering astronomy.com,) you'll know almost
everything needed to be successful in this course. (It is critical that you read and
review everything in both systems.)

The introduction to the course has been recorded and posted on the syllabus folder
on ecampus. Please watch and listen to this video recording in addition to reading
all the documents in various folder on ecampus.

♥This is a web-based course, but I am easily accessible whenever help is required. My
email address is: ssokhansanj@dcccd.edu and you are welcome to call my office number
which is: (214) 860-8630. In case of absence, please leave your name and a telephone
number where I can reach you.

♥ I prefer to communicate by email rather than the telephone, as it gives me the
opportunity to effectively look into your questions and course problems. Whenever you
send a message, make sure you include your course number (i.e. 1404) and your full
name in the subject subtitle.

♥ I'd like to remind you this is NOT a self-spaced online course with a due date of the
last day of scheduled class. This course includes daily assignments and weekly
deadlines scheduled throughout the semester.

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

Course Materials/Supplies Needed:

- Textbook: Hewitt, Conceptual Physical Science, 5e-Publisher-: Pearson –
  Addison Wesley

Hewitt, Suchocki & Hewitt
2012 | Addison-Wesley | Published: 09/22/2011
(***Please Note: This is the 5th ed of the Conceptual physical Science text book. Make sure you will NOT buy 11th ed. of the conceptual physics)

You have option to buy either the electronic textbook or the hard copy of the textbook *Note: You are required to have the access key to the 5th edition of the assigned textbook on mastering physics, but you may use any physical science book.

2- Important Step:

Enroll your name immediately after you have purchased the access key in the following class on “Masteringphysics.com”

Winter 2015- Physical Science I -1415- (62400&92401)

Course ID: MPSOKHANSANJ09206

2- Lab Experiments material

**Reading and homework assignments:**

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

  - All the due dates are posted in their corresponding folders: Reading Assignments, HW, Quiz, weekly news assignments and etc..

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

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

3- Watch, perform, review, and study the videos, animations, and interactive figures in the Study area of the mastering Physics

- Assignments that you will submit by the end of each week:

How and where do you submit various assignments?

1- Home works are mastering physics.com in the Assignments folder,

You will perform and submit your homework on the masteringPhysics.com

2- Lab assignments: Read the instruction for the lab assignment in the Lab Documents and Lab experiments folders on ecampus
3- There will be one term project, the project assignment will be posted in the project folder.

You will build a small electric motor, and will write a 2 to 3 pages report about your project. You need to present your project and video record it and provide the link to your video recording on your tube or any other means possible for you. This is an easy process and students have been for the last 3 to 4 years.

4- Quizzes- These are tutorial quizzes, therefore you can have 3 attempts for each question.

**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:**

- Patterns of Motion and Equilibrium
- Newton’s Laws of Motion
- Momentum and Energy
- Gravity, Projectiles, and Satellites
- Fluid Mechanics
- Temperature, Heat, and Thermodynamics
- Heat Transfer and change of Phase
- Static and Current Electricity
- magnetism and Electromagnetic Induction
- Waves and Sound
- Light
- Atoms and the Periodic Table
- The Atomic Nucleus
- Elements of Chemistry
- How Atoms Bond and Molecules Attract
- Mixtures
- How Chemical Reacts
Two Classes of Chemical Reactions

Course Evaluation:

♥Labs & Activities = 30%
♥Homework on MasteringPhysics.com = 30%
♥Project = % 25
♥Quizzes = % 15

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

Certification Procedures
Students must begin to email a short introduction to the instructor by the end of first week as a proof of attendance. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this online course, you also MUST submit your first week assignments by the due date for attendance certification which will allow you to receive credit for FA purposes. 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.

Instructor Attendance Policy:

• Students are expected to submit all assignment by the due dates. You can find the due dates and the assignments in the corresponding Tabs on ecampus. All assignments are due on Sunday at the end of the week by 11:59PM.

• All late assignments will be penalized 10% per late day.

• Please note that you cannot submit any assignment before they are assigned. For example: Week 3 assignments cannot be submitted during week 1 or week 2. You may submit week 3 assignments on Monday through Sunday of week 3.

Group Work Opportunity:

♥I strongly encourage you to work on assignments in groups of two.

♥Rules for groups: Each group will be in contact with each other via email, telephone, and etc. While working on the assignments:

• You will be helping each other working on the labs, Homework assignments, and etc.
• Each person MUST submit his or her work to its own folder on eCampus (EC) or Mastering Physics (MP). 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.

Introduce yourself to the class:

• Please email me a short introduction with a photo (optional) of yourself so that I can post it in this folder. You may use this folder to request a lab partner. You may choose to work individually but I strongly encourage you to work with a partner. Please note only groups of 2 and no more. But you can contact with the entire class when you need help.

• Please do NOT forget to type your name and you class number 1415 in the subject box of your email.

• Please copy 1-6 in your email and type your
  1- First and last name:
  2- Email address:
  3- Telephone (optional):
  4- Major:
  5- Any other information you like to share with the instructor and classmates:
    (Please note that I copy the entire content of your email and will post it on ecampus.)
  6- A photo of yourself (optional), which is attached to your email /do not copy your photo on the content of your email.

Late Work Policy: All late assignments will be penalized 10% per late day.

The withdraw date for this class is on January 4th.

Academic Dishonesty
Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the 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.

**Institution Policies:** Please visit http://www.mountainviewcollege.edu/... 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, and etc.. are listed on ecampus and mastering physics website in their corresponding folders.
<table>
<thead>
<tr>
<th>Institutional Policies</th>
<th>Mountain View College Syllabi Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stop Before You Drop</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. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W.” 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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<tr>
<td><strong>6Drop</strong></td>
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<tr>
<td><strong>Withdraw Policy</strong></td>
<td>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.</td>
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<tr>
<td><strong>Repeating a Course</strong></td>
<td>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: <a href="http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx">http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx</a></td>
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<td><strong>Financial Aid</strong></td>
<td>Financial Aid <strong>will not</strong> 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.</td>
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<tr>
<td><strong>Academic Dishonesty</strong></td>
<td></td>
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<tr>
<td><strong>ADA Statement</strong></td>
<td>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.</td>
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<tr>
<td>Religious Holidays</td>
<td>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.</td>
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| 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.  
  
**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. |