<table>
<thead>
<tr>
<th>Course Information</th>
<th>Instructor Information</th>
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<tbody>
<tr>
<td><strong>Elementary Physics I</strong></td>
<td><strong>Instructor:</strong> Prof. Christina Reeves-Shull</td>
</tr>
<tr>
<td>Summer I 2019, 6/6/2019 – 7/3/2019</td>
<td><strong>Instructor Email Address:</strong> <a href="mailto:creeves-shull@dccc.edu">creeves-shull@dccc.edu</a></td>
</tr>
<tr>
<td>PHYS 1405 -35420</td>
<td><strong>Primary Contact #:</strong> 972-860-8168</td>
</tr>
</tbody>
</table>
| **LECTURE & LAB** | **Office Location:** Primary – ONLINE  
Secondary – Cedar Valley College Campus  
3030 North Dallas Ave., Lancaster TX, 75134, M Bldg.– Rm. M225K |
| This is a COMPLETELY ONLINE course accessed via the eCampus website – [http://ecampus.dcccd.edu](http://ecampus.dcccd.edu). | **Office Hours Location and Times:**  
PRIMARY – ONLINE: E-mail Response & Online Office Hours (TBD)  
→ I check my e-mail frequently between 8 AM – 10 PM and attempt to respond to questions within 24 hours.  
→ Will meet via Skype/Zoom/similar app per student requests  
SECONDARY (Physical Face-to-Face):  
Cedar Valley College, M Building, M225K  
By Appointment Only! |
| **IN ADDITION to Textbook ...**  
Lecture/Lab notes, Explorations, Lab documentation, videos, animations, interactive modules, and so forth are posted on eCampus site for students to read/review. | **Honors Credit Availability**  
Not available for this course. |
| Logging in for the first time, use your ID# with the small letter e in front of it for both user name and password. For assistance email – creeves-shull@dccc.edu  
Otherwise, use your DCCCD Online Services Sign-In Credentials – your DCCCD account (for example e9876543@student.dcccd.edu) & non-expiring password. | **Required Materials**  
**TEXTBOOK**  
Conceptual Physics 12/E  
12th Edition – Paul G. Hewitt  
Published by Addison-Wesley  
Copyright © 2015  
**eCampus → REQUIRED Online Material**  
**Supplies **  
Pencil, Notebook, Scientific Calculator (on phone), Thumb Drive  
Computer w/ Internet access, Internet browser, current Java  
Free Apps: CamScanner, Adobe Acrobat Reader, MS Office 365 |
| **Course Description** | **NOTE:**  
15 hours per week should be devoted to course material. |
| Conceptual level survey of topics in Physics intended 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.  
4 Credit hours (3 Lec., 3 Lab) | **Required Materials**  
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12th Edition – Paul G. Hewitt  
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**Supplies **  
Pencil, Notebook, Scientific Calculator (on phone), Thumb Drive  
Computer w/ Internet access, Internet browser, current Java  
Free Apps: CamScanner, Adobe Acrobat Reader, MS Office 365 |
| **Course Prerequisites** | **Disclaimer** –  
The instructor reserves the right to amend syllabus based on evaluation of student progress. |
| College level ready in Reading | **Drop Date:**  
Tuesday, June 25, 2019 – Last date to withdraw with a “W”.  
TALK with Instructor BEFORE DROPPING ...  
TOGETHER, WE will work to find a SOLUTION! |
| **Certification Date:**  
4th Class Day, Monday, June 10, 2019 – Financial Aid Recipients MUST ATTEND class at least once by this date. | **Office Location:** Primary – ONLINE  
Secondary – Cedar Valley College Campus  
3030 North Dallas Ave., Lancaster TX, 75134, M Bldg.– Rm. M225K |
| **Required Materials**  
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Texas Core Objectives (TXCOBJ) For Student Learning – STATE

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the following skills are in focus.

TXCOBJ-1. **Critical Thinking Skills** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

TXCOBJ-2. **Communication Skills** – to include effective development, interpretation and expression of ideas through written, oral and visual communication.

TXCOBJ-3. **Empirical and Quantitative Skills** – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

TXCOBJ-4. **Teamwork** – to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

CVC Course Specific Student Learning Outcomes

1: **Scientific Method; Belief System; Process of doing** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3, TXCOBJ-4)

Describe and apply the concepts that serve as the basis of the Scientific Method as well as, use these concepts to distinguish between a Belief System and the process of doing Science.

2: **Kinematics and Dynamics** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Apply appropriate mathematical techniques, equipment, and principles to analyze and solve a variety of real-world problems demonstrating the application of force on one or more objects in one or more physical dimensions.

3: **Force, Work, and Energy Relationships** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Apply appropriate mathematical techniques, equipment, and principles to analyze and solve a variety of real-world problems demonstrating the relationships among force, work, and energy.

4: **Conservation Laws** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Apply appropriate mathematical techniques, equipment, and principles to analyze and solve a variety of real-world problems demonstrating the conservation of various physical properties.

5: **Matter – Properties, Composition, and Interactions** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Apply appropriate mathematical techniques, equipment, and principles to analyze the fundamental properties of matter to create a model of the universe on the atomic scale that explains the behavior of matter in the universe.

6: **Thermodynamics** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Apply appropriate mathematical techniques, equipment, and principles to analyze and solve a variety of real-world problems demonstrating the concepts and laws of Thermodynamics.

7: **Historical Perspective** (TXCOBJ-1, TXCOBJ-2, TXCOBJ-3)

Describe the history of scientific developments, including the main ideas and individuals responsible as well as show how these developments continue to affect daily life.