

# College Physics I

## PHYS 2010

### Instructor Information

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**Phone:**

**Email:**

**Office Location:**

**Office Hours**

### Communication Plan

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- We will respond to email within one weekday.
- We will offer feedback on major assignments within one week. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.

### Course Prerequisites

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MATH 1050 with a C or better

### Course Description

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For pre-professional, non-science, non-engineering majors. Newton's laws of motion, gravity, work and energy, solid body motion, fluid motion, vibrations and waves, and thermal physics. It is recommended that students take PHYS 2015 in the same semester as this course.

Prereq: MATH 1050

Semesters: All

### Transfer/Certification/Licensure/Employment Information

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This course transfers to all Higher Education schools in Utah.

### Course Student Learning Outcomes

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- Recognize and understand the following physics principles in their everyday lives: Newton's laws of motion, Gravity, Work and energy, Solid body motion, Fluid motion, Vibration and waves, Thermal physics.
- Think critically and solve physics problems.

- Gain a solid scientific foundation that will enable them to succeed in their professional programs.

## Required Text or Materials

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**Title:** OpenStax College Physics (you have access to the homework system and eText starting the first day of class)

For more information on textbook accessibility, contact Accessibility & Disability Services at [ads@slcc.edu](mailto:ads@slcc.edu).

## Brief Description of Assignments/Exams

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Assessment of your learning will be done in four ways:

- **Pre-lecture Quizzes (15%):** On class days, you will have a concept video to watch and a short quiz to complete prior to coming to class. These videos are meant to help you start becoming familiar with the terminology we will be using. The pre-lecture quizzes cannot be submitted late, nor can they be made up. We will drop one quiz at the end of the semester.
- **In Class Participation (15%):** We know the best way to learn physics is to be actively involved in class discussions. These discussions will come in a variety of ways. As long as you are on time to class and participating, you will get full credit for participating. Also, participating doesn't mean getting the right answers every time, it simply means being engaged and trying your best.
- **Homework Assignments (30%):** Assignments are done online through WebAssign. You have access to this homework system today, on the Modules page. [Registration Instructions](#). During the first couple weeks of class, the company holds [virtual office hours](#) to help students with registration and other questions.
- **Exams (40%):** There will be four exams throughout the semester and a final exam. Exams will be taken in the SLCC testing center. You will be provided with test notes that you may use on the exam (a link to the test notes is on the Modules page). Be sure to bring your calculator. Cell phones may not be used as a calculator.

## Grading Scale

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Your final grade will be rounded to the nearest whole number

A	93 – 100%	B+	87 – 89%	C+	77 – 79%	D+	67 – 69%	E	< 60%
A-	90 – 92%	B	83 – 86%	C	73 – 76%	D	63 – 66%		
		B-	80 – 82%	C-	70 – 72%	D-	60 – 62 %		

## Keys for Success (how to succeed in the course)

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- Be prepared for class – read the chapter, watch the pre-lecture videos, complete the pre-lecture quiz.

- Take responsibility for your learning – form study groups, discuss class topics, do the homework early.
- Start homework the day of class and spend time every day doing more – Physics is not conducive to cramming.
- Learn how to approach problems rather than memorizing one problem and trying to make it fit other problems. Memorization is not a way to be successful in physics.
- Do practice tests with enough time to ask questions.
- Embrace and maintain a Growth Mindset ([Growth Mindset](#)), watch [Michael Jordan's experience](#) with a Growth Mindset

## Assignment Schedule

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Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Aug 20</a>	Assignment	5
	<a href="#">Pre-Lecture 11, Tues 9/24</a>	Quiz	7
	<a href="#">Pre-Lecture 12, Thurs 9/26</a>	Quiz	5
8/22	<a href="#">Aug 22</a>	Assignment	5
8/26	<a href="#">Chapter 1 Homework</a>	Assignment	10
8/27	<a href="#">Pre-Lecture 3-T 8/27</a>	Quiz	4
8/27	<a href="#">Aug 27</a>	Assignment	5
8/29	<a href="#">Pre-Lecture 4-R 8/29</a>	Quiz	7
8/29	<a href="#">Aug 29</a>	Assignment	5
8/29	<a href="#">Chapter 2 Homework</a>	Assignment	4.1
8/31	<a href="#">Introduce Yourself</a>	Discussion	10

<b>Due Date</b>	<b>Assignment Name</b>	<b>Assignment Type</b>	<b>Points</b>
9/3	<a href="#">Pre-Lecture 5-T 9/3</a>	Quiz	6
9/3	<a href="#">Chapter 3 Homework</a>	Assignment	10
9/4	<a href="#">Exam 1 (Ch 1 - 3)</a>	Assignment	50
9/5	<a href="#">Pre-Lecture 6-R 9/5</a>	Quiz	13
9/5	<a href="#">Sept 5</a>	Assignment	5
9/10	<a href="#">Pre-Lecture 7 Tues 9/10</a>	Assignment	9
9/10	<a href="#">Sept 10</a>	Assignment	5
9/12	<a href="#">Pre-Lecture 8 Thurs 9/12</a>	Assignment	12
9/12	<a href="#">Sept 12</a>	Assignment	5
9/16	<a href="#">Chapter 4 HW</a>	Assignment	36
9/17	<a href="#">Exam 1 CORRECTIONS</a>	Assignment	0
9/17	<a href="#">Pre-Lecture 9 Tues 9/17</a>	Assignment	17
9/17	<a href="#">Sept 17</a>	Assignment	5
9/19	<a href="#">Pre-Lecture 10, Thurs 9/19</a>	Assignment	4
9/19	<a href="#">Sept 19</a>	Assignment	5
9/23	<a href="#">Chapter 5 HW</a>	Assignment	40

<b>Due Date</b>	<b>Assignment Name</b>	<b>Assignment Type</b>	<b>Points</b>
9/24	<a href="#">Sept 24</a>	Assignment	5
9/26	<a href="#">Chapter 6 HW</a>	Assignment	10
9/27	<a href="#">Exam 2 (Ch 4 - 6)</a>	Assignment	50
10/1	<a href="#">Pre-Lecture Tues 10/1</a>	Assignment	12
10/1	<a href="#">Oct 1</a>	Assignment	5
10/3	<a href="#">Pre-Lecture Thurs 10/3</a>	Assignment	15
10/3	<a href="#">Oct 3</a>	Assignment	5
10/7	<a href="#">Chapter 7 HW</a>	Assignment	45
10/8	<a href="#">Pre-Lecture Tues 10/8</a>	Assignment	8
10/8	<a href="#">Oct 8</a>	Assignment	5
10/10	<a href="#">Pre-Lecture 16, R 10/10</a>	Quiz	5
10/10	<a href="#">Oct 10</a>	Assignment	5
10/10	<a href="#">Chapter 8 HW</a>	Assignment	42
10/15	<a href="#">Pre-Lecture Tues 10/15</a>	Assignment	14
10/15	<a href="#">Oct 15</a>	Assignment	5
10/16	<a href="#">Chapter 9 HW</a>	Assignment	48

<b>Due Date</b>	<b>Assignment Name</b>	<b>Assignment Type</b>	<b>Points</b>
10/22	<a href="#">Pre-Lecture Tues 10/22</a>	Assignment	12
10/22	<a href="#">Oct 22</a>	Assignment	5
10/24	<a href="#">Chapter 10 HW</a>	Assignment	45
10/25	<a href="#">Exam 3 (Ch 7 - 10)</a>	Assignment	50
10/29	<a href="#">Pre-Lecture Tues Oct 29</a>	Assignment	3
10/31	<a href="#">Pre-Lecture Thurs Oct 31</a>	Assignment	3
11/4	<a href="#">Chapter 11 HW</a>	Assignment	45
11/5	<a href="#">Pre-Lecture Tues Nov 5</a>	Assignment	11
11/7	<a href="#">Pre-Lecture Thurs Nov 7</a>	Assignment	10
11/12	<a href="#">Pre-Lecture Tues Nov 12</a>	Assignment	10
11/15	<a href="#">Exam 4 (Ch 11 - 14)</a>	Assignment	50
12/12	<a href="#">Final Exam</a>	Assignment	100

## How to Navigate to Canvas

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## Institutional Policies

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As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading

policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

You can access the document by clicking on the following

link: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>

## Learning Support and Tutoring Services

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We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, please visit the Institutional Syllabus under the Tutoring and Learning Support tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## Advising and Counseling Support Services

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At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## Student Academic Calendar

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As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)