

Course Syllabus for Phys 100

COURSE NAME	TERM/YEAR:
Introductory Physics (Mechanics and Heat)	Fall 2020 (September 14 th)

OFFICE HOURS:
NA

CALENDAR DESCRIPTION:

An introduction to fundamental physics concepts such as force, energy, momentum, and the use of graphs and vectors in physics. Topics include mechanics, heat, and electricity.

COURSE DESCRIPTION:

An introduction to Concepts of Motion, Kinematics in one dimension, Force and Motion, Dynamics, Motion Along a Line, Newton's Third Law, A macroscopic description of matter, Electric charges and forces

COURSE PRE-REQUISITES:

Physics 11 and pre-calculus 12 (or equivalent)

REQUIRED TEXTS & RESOURCES:

Required Materials

Textbook: Knight, Physics for Scientists & Engineers 4e + Mastering Physics Access Card
80 CAD: 4-month access to HW + e-text

Hardware

Web-Cam and Microphone (Used for class, and invigilation of tests)
Reliable Computer/Laptop
Reliable Internet Connection
Camera to photograph tests, and to submit as PDFs (many free apps on Android/Apple devices)

Recommended: External Webcam: this will allow you to better view your monitor without the need to re-

adjust the webcam while writing quizzes.

Calculators:

A calculator is recommended for this course. The only requirement is that it does not have internet or communication abilities with other people/devices (so no cell phones etc.). Graphing calculators are acceptable and encouraged. (See if you can find a used one, or borrow one).

COURSE REQUIREMENTS:

All students are expected to study the lessons on Canvas, pre-read the textbook sections, do the workbook assignments included in the textbook package, as well as assignments through Mastering physics access card. There is also a video assignment, which is mandatory to pass the course. The homework assignments will be done through Mastering Physics, and will typically be due the week after the topic is covered in class. Summative evaluation will consist of quizzes and one final exam. Quizzes will be approximately 60 minutes and may be cumulative. The final exam will be 180 minutes long and is cumulative.

GRADE DISTRIBUTION:

The grading schema for the course is as follows:

	GRADE %
Online Homework (lowest assignment dropped)	10
Bonus Homework	5
Two Quizzes @ 30% each	60
Mock-Final (Replaces lowest quiz)	--
Final Exam	30
Video Assignment	Pass/Fail
Total (Note, grades are capped at 100%)	105

COURSE POLICIES

It is the responsibility of every student to read and understand the College Policies. The College Policies on [Academic Honesty](#), [Academic and Exam Accommodations](#), [Grading Practices](#), [Student Conduct](#), [Technology Usage](#), and more can be found here: <http://corpuschristi.ca/about-us/academic-policies> More specifically, this course will be conducted in accordance with the Classroom Practices Policy, also found by following the indicated link. The policy covers issues related to attendance, missed tests/exams and other pertinent matters.

ABOUT OUR LEARNING COMMUNITY

Physics 100 is a learning community that is welcoming of diverse backgrounds, experiences, and perspectives. This means that we strive for inclusivity in our classroom, our virtual spaces, our practices, and our interactions. Mutual respect, civility, and the ability to listen and observe others carefully are crucial; active, thoughtful, and respectful participation in all aspects of the course will make our time together as productive and engaging as possible. If you have a particular need to facilitate your learning in this course, please contact the Corpus Christi College's Student Resource Center (SRC) <https://corpuschristi.ca/cc-arc/home/>. Sooner this is done within a course, better the course will be able to be adapted to suit your needs.

ATTENDANCE / PARTICIPATION:

Every student is expected to engage with the recorded lessons, and complete all the homework assignments. The standard College Policies apply (<http://corpuschristi.ca/about-us/academic-policies/>), as well as the additional policies indicated in the syllabus, and those posted on Canvas.

ONLINE QUIZZES AND TESTS:

In order to ensure the integrity of the various quizzes and final, the online proctoring software known as Proctorio is used in this course. A web-cam and microphone are **required** for you to use this software. The testing policies will be discussed in class, and posted on Canvas. If students violate the policies, they will be given zero on the associated quiz/final, and the "Mock-Final" may be used to replace one instance of this. If a student violates the policies and is additionally found to be cheating, they will receive a zero on the associated quiz/final, and they will not be allowed to replace this grade with that of the "Mock-Final". Any student found to be cheating has the right to appeal the decision with the college.

ONLINE HOMEWORK: (10%)

Weekly homework is assigned to ensure that students are following along with the material. The assignments are done online in Mastering Physics. Full marks for each question can be obtained within four attempts. (AKA no marks lost if you take 3 attempts to get the correct answer). You are encouraged to collaborate with your peers on the homework assignments, this can be done through Canvas, and on Piazza. No extensions to homework assignments will be granted, instead both the lowest two homework assignments will not be counted towards your grade.

BONUS HOMEWORK: (5%)

There will be one “Practice Quiz” for each quiz, and one “Practice Mock Final”. In total, these items may boost your mark up to 5% of the over-all course grade. The due-dates of these bonuses are typically due the class before their associated quiz.

MISSED QUIZZES (60%) AND FINAL (30%):

In order to avoid a mark of 0 and to have the opportunity to write at a later date, a student who misses a Quiz or final exam must provide original documentation as evidence of a serious medical or personal impediment, as per the College’s policies. Please contact the instructor as soon as you realize you may be missing an exam. If there are scheduling conflicts with a Quiz or Final, the instructor must be notified as soon as possible (ideally the first week of class).

GRADING SCALE:

LETTER GRADE	NUMERICAL EQUIVALENTS	GRADE POINT	GRASP OF SUBJECT MATTER	OTHER QUALITIES EXPECTED OF STUDENTS
A RANGE:		Excellent: Student shows original thinking, analytic and synthetic ability, critical evaluations, broad knowledge base.		
A+	90-100	4.33	Extraordinary	Strong evidence of original thought, of analytic and synthetic ability. Superior grasp of subject matter with sound and penetrating critical evaluations, which identify assumptions of those they study as well as their own; mastery of an extensive knowledge base.
A	85-89	4.0	Excellent	Clear evidence of original thinking, of analytic and synthetic ability; Strong grasp of subject matter with sound critical evaluations; evidence of broad knowledge base.
A-	80-84	3.67	Very, very good	Strong grasp of subject matter and sound critical assessments with appreciation for the larger context.
B RANGE:		Good: Student shows critical capacity and analytic ability, understanding of relevant issues, familiarity with the literature.		

LETTER GRADE	NUMERICAL EQUIVALENTS	GRADE POINT	GRASP OF SUBJECT MATTER	OTHER QUALITIES EXPECTED OF STUDENTS
B+	76-79	3.33	Very good	Good critical capacity and analytic ability; reasonable understanding of relevant issues; good evidence of familiarity with literature
B	72-75	3.0	Good	Solid critical capacity and analytic ability; reasonable understanding of relevant issues; good evidence of familiarity with literature.
B-	68-71	2.67	Satisfactory	Adequate critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with literature.

C RANGE		Acceptable to minimum.		
C+	64-67	2.33	Acceptable	Basic critical capacity and analytic ability; some understanding of relevant issues; some evidence of familiarity with literature.
C	60-63	2.0	Barely Acceptable	Acceptable in expression but deficient in analysis or in structure.
C-	55-59	1.67	Needs Improvement	Acceptable in expression but deficient in both analysis and in structure.
D	50-54	1.0	Minimum Pass	Addresses the topic but significant deficiencies in expression, analysis and structure.

FAILED				
F	0-49	0		Failure to meet the above criteria

COURSE SCHEDULE

The following schedule may be altered according to the instructor's judgment.

Week	Week Of	Section and Topic
1	September 14	<ul style="list-style-type: none"> • Chapter 1: Concepts of Motion
2	September 21	<ul style="list-style-type: none"> • Chapter 2: Kinematics in One Dimension
3	September 28	<ul style="list-style-type: none"> • Quiz 1 (Chapters 1-2) • Chapter 5: Force and Motion
4	October 5th	<ul style="list-style-type: none"> • Chapter 6: Dynamics 1: Motion along a line
5	October 12th	<ul style="list-style-type: none"> • Chapter 7: Newton's Third Law
6	October 19th	<ul style="list-style-type: none"> • Quiz 2 (Chapters 5,6,7) • Chapter 18: A Macroscopic Description of Matter
7	October 26th	<ul style="list-style-type: none"> • Mock-Final (Chapter 1,2,6,7,18) • Chapter 22: Electric Charges and Forces
8	November 2nd	<ul style="list-style-type: none"> • Final Exam: All Chapters (Date TBD)

Appendix

OTHER RELEVANT INFORMATION FOR THIS COURSE:

Credit transferability: Consult <http://www.bctransferguide.ca>

Piazza: Piazza will be used as an online discussion platform for the course. All homework and course related questions should be asked on Piazza. Piazza will allow for students to discuss questions with each other as well as the instructor. All content and course related questions should be asked on Piazza.

Email policy: Email contact with the instructor is for non-content related questions only such as illnesses and personal questions.

Calculators: A calculator may be used on any and all aspects of the course. Any type of calculator is allowed if it does not have the capability to connect to the internet or communicate to another device in any way.