

Physics Syllabus

2018 – 2019

Welcome to physics class. This course will cover the MEES physics curriculum. You will be learning a lot about how the around world works – some of which may or may not make sense the first time. It will by the end of the year.

Communication

I will rely very heavily on my website (icdt.ca – stands for I can do this.) to let you know what we are learning, the dates for tests and quizzes, and information about assignments including when they are due. Please, get in the habit of checking the website regularly as you are responsible for knowing the information posted there. If you need to miss or have missed class for any reason, please let me know either in class or by email.

Text Book

We will primarily use ‘Quantum, Physics, Student Textbook, Third Year of Secondary Cycle Two’ published by Chenelière Education. The text book is our source for the content of the course. Please, read the relevant sections before coming to class. Since we have such a good text book, I will not be reproducing the book on the board in class. I will explain the new material as we learn it, and then we will practice solving problems relevant to the topic in class. Reading the chapter sections ahead of time will significantly help you learn the material. For some students, this represents a change from how they have learned in the past. Some might find it hard in the beginning, but with a positive outlook, you will adapt to this methodology. This course is structured more closely to a CEGEP course, and getting used to it this year will help you next year.

Homework

The homework will be the problems at the end of the sections and chapters in the text book. Each student is responsible for solving the problems, comparing their result with the posted solutions, and getting help if they need it. I will not collect homework. The problems for the quizzes and tests will follow closely the problems in the book. If you can solve all the problems in the book under test conditions, you will do very well in this course and will be ready for CEGEP physics. Plan on spending about two to three hours outside of class studying physics for every hour in class. Please, ask me to solve problems in class that you’re having trouble with, and I will do so whenever possible.

Grades

Tests and quizzes with account for 60 % of the grade, and the labs and essay will account for 40 %. I do not grade on a curve so it makes sense for students to study together and help each other learn. I highly recommend this. We almost always learn better from our peers than from the teacher.

Math Skills

Physics uses mathematics to create a model of some aspects of the real world. This is cool, because it allows us better understand the world we live in. It also means that we will have to learn some new math concepts together, and get better at manipulating algebraic equations. Every year that you've taken math, you've gotten better at the subject. This year is no different. You will go beyond using the triangle to solve equations this year. It may make you uncomfortable, but that's okay. Learning something new is often uncomfortable. If you learn to tolerate the unease that comes from being in a new situation and pushing your understanding, you will do fine.

'Dr. Bob'

Mr. Schweitzer

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Here's the order in which we will study the material in the text book so you can stay ahead in your reading.

Ch. 6.1, 6.2

Ch. 7.1, 7.2, 7.3, 7.4, 7.5, 7.6

Ch. 8.1, 8.2, 8.3, 8.4

Ch. 9.1, 9.2, 9.3, 9.4

Ch. 10.1, 10.2, 10.3

Ch. 11.1, 11.2, 11.3

Ch. 12.1, 12.2, 12.3, 12.4, 12.5, 12.6

Ch. 13.1, 13.2, 13.3

Ch. 14.1, 14.2, 14.3

Ch. 15.1, 15.2

Ch. 16.1, 16.2, 16.3, 16.4, 16.5

Ch. 17.1, 17.2

Ch. 1.1, 1.2

Ch. 2.1, 2.2, 2.3, 2.4, 2.5

Ch. 3.1, 3.2, 3.3, 3.4, 3.5

Ch. 4.1, 4.2, 4.4