

**PHYS 111 – Introductory Physics II**  
**Course Outline: Jan – Apr 2014**

Instructor: Dr. M. Laidlaw  
Sections: A01, A02, A03  
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Lectures: 10:30 – 11:30 TWF, ELL 168 (A01)  
11:30 – 12:30 TWF, ELL 168 (A02)  
10:00 – 11:30 MR, ELL168 (A03)  
I will post office hours on the PHYS 110 “Moodle” site.

Labs: Lab sections are normally held in Elliott 144.  
Labs start January 6 – you will be given your laboratory schedule then.  
Attend the labs at the times assigned by your laboratory instructor.  
You must complete all labs and have satisfactory standing to obtain credit for the course.

Prerequisite: PHYS 110.  
To register in this class, you also must have credit for, or be concurrently registered (at UVic) in a calculus class (MATH 100 or 102). We will teach the course assuming that you are concurrently taking MATH 101.

Required Texts: “University Physics” - UVic Custom Edition (Volume II)  
The “University Physics” text from the first term (Volume I) was sold in the Bookstore packaged with access to an online course management system: MasteringPhysics. This system is required in order to access, complete, and receive credit for the assignments.

Course objective:  
In this course we will give an overview of, and teach the basic principles of, a number of areas of physics. You will learn to analyze physical systems and to identify the principles by which they operate. You will also learn to apply and interpret mathematical tools such as vectors, calculus, and symbolic manipulation to predict and understand the behavior of these systems. In the process we will stimulate your curiosity about the physical world and help you develop analytical thinking skills that you can apply in your future studies.

Course content:  
Heat engines; harmonic motion; wave motion; geometric and wave optics; modern physics.

## Organizational Details:

### Midterm Exams:

There will be two midterm exams tentatively on February 6 and March 13.  
The exams are scheduled for 6:30 pm – 8:00 pm both days.  
The location you write your exam will depend on which section you are in. We will give instructions about exam location nearer the time of the exams.  
If these exams conflict with scheduled university activities, such as tutorials, lectures, or labs, please contact the course coordinator (Dr. Laidlaw).  
We expect you to write both midterm exams.

### Final Exam:

There will a final exam during the April exam period.  
The date is centrally scheduled, and normally finalized in late February.  
Do not plan April travel before you know the exam schedule.  
You must write the final exam to get credit for this course.

### Supplementary Course Material:

We will distribute any course material via the “Moodle” site for PHYS 110.  
We expect that this material will include guidance about what material to study in preparation for lectures and exams.

### Assignments:

Assignments will be assigned and due approximately weekly.  
Assignments will be administered through [www.masteringphysics.com](http://www.masteringphysics.com)  
The course-ID you need is: **PHYS111UVIC201401**  
We have chosen to administer assignments through this system because the interactive features provide prompt feedback that will help you learn the material.

### Accommodations:

We are willing to arrange reasonable accommodations for:

- Missed exams due to illness or other severe affliction;
- Missed assignments or course deadlines due to illness or other affliction;
- Conflicts between classes or examinations and your religious observances;
- Issues documented through RCSD; and
- Other issues.

If you miss an exam for any reason, we expect you to contact us as soon as possible after the exam. If you anticipate missing a course requirement, we expect you to contact us a reasonable amount of time in advance.  
If something comes up that adversely affects your performance, please talk to your instructor or the course coordinator. We can't help you if we don't know about the problem.

**You may ONLY use a non-programmable, non-graphing calculator for exams. Examples of acceptable calculators are the Sharp EL-510R or EL-510RNB; they can be bought in the Bookstore for about \$10.**

## Keys to Success

Don't cheat on exams, assignments, or in your labs. Cheating, plagiarism, and other forms of academic fraud are taken very seriously both by the instructors and the University. The *Policy on Academic Integrity* can be found in the Undergraduate Calendar on pages 32-33. It is available online at:

<http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/PoAcI.html>

You should note that the typical penalty for cheating on an exam is being assigned the grade F in the course. If the instructors have a reasonable apprehension that an academic integrity violation has occurred then they may take this into account in their exercise of academic judgment when assigning grades; this is separate from any disciplinary process.

There are several places where you can get help, both with Physics and with other issues:

- The Physics Aid Center (drop-in Physics Q&A held in Elliot 038)
- The Learning Commons (help with Math, Writing, and Learning Skills.)
- Your instructors. We have office hours for a reason.
- Resource Centre for Students with a Disability (472-4946)
- Counseling Services (721-8341)

Keys to success:

- Attend lectures – you won't be exposed to the material if you don't.
- Read the text – the text explains things in a slightly different way from us; having access to different perspectives will help you synthesize the material.
- Do the assignments – We choose the problems to help teach the principles that are important for learning.
- Study – We expect that this class will take you around 12 hours per week between classes, labs, assignments, and studying.
- Ask for help if you find yourself falling behind.

What we expect you to do:

- Read the text prior to coming to lecture.
- Work through the material posted on Moodle as the material is covered.
- Start your assignments well before the due date.
- Study continually; this isn't a class you can do well in with a "cram and memorize" strategy.

## Marking and Grades:

To obtain credit in the course you must:

- Have a satisfactory score on the final (end-of-term) exam. In the past a score of 40 has been minimally satisfactory.
- Complete all labs *and* have satisfactory standing in the labs.
- Have a score above 50 based on the following method of calculation:

	Scheme 1	Scheme 2	
Assignments	15	15	approximately weekly
Labs	15	15	all labs must be completed
Midterms	10	20	
Final Exam	60	50	

Your mark will be calculated from the scheme that gives the higher score.

The University of Victoria has a standardized conversion between percentage grades and letter grades. This marking scheme is:

A+	90-100	B+	77-79	C+	65-69	F	0-49
A	85-89	B	73-76	C	60-64		
A-	80-84	B-	70-72	D	50-59	N	Not Complete

In all cases, we will use your score (as determined above) to guide the assignment of a percentage grade. The meanings of the percentage grades are explained in the current Undergraduate Calendar; the descriptions can be found on page 37, or online at <http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/Grad.html>. We will ensure that assigned grades correspond to these narrative descriptions.

Marks in individual components typically roughly correspond to the following grades:

Exams:	0-40: F	40-60: C/D	60-80: B-range	80-100: A-range
Assignments:	0-50: F	50-80: C/D	80-100: A or B-range	
Labs:	0-50: F	50-70: D	70-100: A through C-range	

We do not grade on a curve. In the past, courses like this have typically had roughly the following grade distribution:

A-range: 20%, B-range: 40%, C/D-range: 30%, F: 10%

The past PHYS 110 class had A-range grades somewhat above these estimates.

We will review all lab marks prior to assigning a final grade; all instructors will review all final grades assigned.

The grade E is a failing grade which offers the possibility of a supplemental examination, contingent on your performance in other courses. We will normally not offer supplemental examinations, and so will normally not assign the grade E.

The grade N is a failing grade that indicates that you did not complete the required course work. We will assign an N if you do not write the final exams, if you do not complete all labs, or if you do not have satisfactory standing in the labs.