# PHYS 326 – Electricity and Magnetism Course Outline: Sept 2016 – Dec 2016

Instructor: Office: Phone: Email:	Dr. M. Laidlaw Elliott 106 721-7701 <u>laidlaw@uvic.ca</u>		
Lectures: Tutorial: Office Hours	8:30 – 9:30 TWF, ELL 162 12:30 – 1:30 W, ELL 162 : I will post office hours on the PHYS 326 "CourseSpace" site.		
Labs:	Lab sections are normally held in Elliott 131. Labs start September 12. You will be given scheduling information at the first lab. You must complete and pass all labs to obtain credit for the course.		
Prerequisite:	requisite: PHYS 216 and MATH 204. Concurrent enrolment <u>or</u> prior completion of MATH 342. This course will be mathematically demanding; I assume that all studer have a strong basis in calculus and vector algebra.		
Required Texts: "Introduction to Electrodynamics" Griffiths			
Calendar Description: Properties of electromagnetic fields using vector calculus, displacement current, Maxwell's equations, plane electromagnetic waves with applications, transmission lines, and transients in LRC circuits.			
Course Content: Griffiths Chapters 1-7 and topics selected from Chapters 8 and 9.			
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## **Organizational Details:**

#### Midterm Exams:

There will be an in-class midterm exam on October 21.

### Final Exam:

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

## **Course Material:**

I will distribute any course material via the "CourseSpaces" site for PHYS 326, available at <u>coursespaces.uvic.ca</u>.

This material will include assignments, some lecture notes, and similar material.

## Assignments:

Assignments will be assigned and due approximately weekly.

#### Accommodations:

I am willing to arrange reasonable accommodations for customarily accommodated issues, however this is contingent on your active participation: If you miss a course requirement, I expect you to contact me as soon as reasonably possible, and I expect you to give me advance warning of issues that you could have reasonably foreseen.

# **Marking and Grades:**

To obtain credit in the course you must:

- Exhibit satisfactory performance on the final (end-of-term) exam.
- Complete all labs <u>and</u> have satisfactory standing in the labs.
- Have a score above 50 based on the calculation outlined below.

	Value	
Assignments (total)	15 or 25	approximately weekly
Labs	15 or 25	labs must be completed
Midterms (total)	10 or 20	-
Final Exam	50 or 60	

I will choose the values so that the total is out of 100 and your score is maximized

In all cases, I will use the score (as determined above) to guide my determination of an appropriate letter grade. Once I have determined an appropriate letter grade, I will assign a corresponding percentage grade. The University of Victoria has a standardized conversion between percentage grades and letter grades. This marking scheme is: 77-79 C+A+ 90-100 B+65-69 F 0-49 85-89 73-76 С А B 60-64 B-70-72 50-59 A-80-84 D Ν Not Complete The meanings of the percentage grades are explained in the current Undergraduate

Calendar. We will ensure that assigned grades correspond to the narrative descriptions. The official descriptions can be found online:

http://web.uvic.ca/calendar2016-09/FACS/UnIn/UARe/Grad.html.

In Physics, a discipline norm is that <u>mastery</u> combines very good comprehension with the ability to demonstrate that comprehension under time pressure, such as in an exam situation. Full engagement with course activities includes submitting essentially all assignments.

If you show <u>unsatisfactory</u> performance on the final exam *and* I judge that if you had exhibited minimally satisfactory performance I would have assigned you a passing mark, I will offer you a summative reassessment exam. If you have successful performance on the summative reassessment exam, I will assign you a final percentage grade of 50% (D).

I 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. I will assign the percentage grade 0% for all N grades.