General Information

Instructor: Travis Martin
Email: travismartin@uvic.ca
Office: Elliot 402B
Office Hours: TBA
Course Webpage: http://coursespaces.uvic.ca

Lecture Schedule:
Monday and Thursday from 1:00pm - 2:20pm in MAC D111.

Prerequisites:

PHYS 326; one of MATH 301, MATH 330B, MATH 438; and MATH 326 or MATH 346. Or permission of the department.

Required Materials:

Text: Griffiths, “Introduction to Electrodynamics” (any edition)

In addition, you should have access to a computer with either a MatLab or Python programming environment.

Accommodations:

Accommodations can be made for missed exams/assignments due to illness or other severe affliction, as well as conflicts with classes and religious observances. Accommodations will also be made for issues documented through CAL.

If you miss an exam or assignment, I expect you to contact me as soon as possible. If you anticipate missing a course requirement, you must contact me a reasonable time in advance. If an emergency occurs during a test, please talk to me. I can’t help if I don’t know about the problem.
Grading

If the application of this scheme would result in grades that are judged by the instructor to be inconsistent with the University’s grading descriptions (https://web.uvic.ca/calendar2014/FACS/UnIn/UARe/Grad.html), then the instructor will assign percentages consistent with them.

Assignments: 30%

There will be six assignments throughout the semester, which include a mix of pen-and-paper questions as well as computational questions. These assignments will be due at the start of class on the provided due date. Late assignments will not be accepted without approval prior to the due date or verified illness.

Assignment Policy: You are allowed to collaborate on assignments, so long as your work and your solutions are your own. I take a very strict stance on copying and academic infringement, but I do understand the value in collaborative work. Discussing with a friend is no different from discussing with a professor, except it will likely help your friend learn the material better (teaching someone is the best way to learn material, trust me). But if you scribe their answers, I will know, and I will throw the metaphorical book at you!

Neatness Policy: You are expected to treat your assignments with respect. Ripped and crumpled/creased paper will not be accepted.

Flipped Classroom Sessions: 5%

There will be six flipped classroom sessions throughout the semester - one before each of the assignment due dates. The class will split up into small groups no larger in size than four and will work on problems that will be similar in content to the assignment. Periodically, the class will pause this work and collectively discuss the solution to help all groups catch up. At the end of the class, students will hand in their work for review.

Students will receive grades based on their participation in these sessions.

Midterm Exam: 20%

The midterm is designed to encourage students to summarize their knowledge of the material in the first half of the course - namely, the quantum formalism and linear algebra. The midterm will be held in-class.

Final Exam: 45%

The final exam will be comprehensive in that it will require knowledge of all of the material of the course. However, the exam will focus primarily on the material after the midterm, while the pre-midterm material will be necessary tools/techniques in order to solve the problems of the final exam.

There will be two parts to the final exam. There will be a take home exam with traditional problems to solve. There will also be an oral exam component, where I will schedule one-on-one interviews with you to assess your understanding of the material.
University Regulations on Academic Integrity

These regulations are reproduced from [http://web.uvic.ca/calendar2011/FACS/UnIn/UARe/PoAcI.html](http://web.uvic.ca/calendar2011/FACS/UnIn/UARe/PoAcI.html). For full information, including procedures for dealing with academic integrity infringement, see the webpage linked above.

Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. Any action that contravenes this standard, including misrepresentation, falsification or deception, undermines the intention and worth of scholarly work and violates the fundamental academic rights of members of our community.

Several types of academic integrity violations are covered in brief below.

**Plagiarism**

A student commits plagiarism when he or she:

- submits the work of another person as original work
- gives inadequate attribution to an author or creator whose work is incorporated into the student’s work, including failing to indicate clearly the inclusion of another individual’s work
- paraphrases material from a source without sufficient acknowledgement as described above

Students who are in doubt as to what constitutes plagiarism in a particular instance should consult their course instructor.

**Falsifying Material Subject to Academic Evaluation**

Falsifying materials subject to academic evaluation includes, but is not limited to:

- fraudulently manipulating laboratory processes, electronic data or research data in order to achieve desired results
- using work prepared by someone else (e.g., commercially prepared essays) and submitting it as one’s own
- citing a source from which material was not obtained
- using a quoted reference from a non-original source while implying reference to the original source
- submitting false records, information or data, in writing or orally

**Cheating on Assignments, Tests/Quizzes and Examinations**

Cheating includes, but is not limited to:

- copying the answers or other work of another person
- sharing information or answers when doing take-home assignments, tests and examinations except where the instructor has authorized collaborative work
- having in an examination or test any materials or equipment other than those authorized by the examiners impersonating a candidate on an examination or test, or being assigned the results of such impersonation
- *assisting others to engage in conduct that is considered cheating*