

PHYS 205/4-03 *Electricity and Magnetism*

Fall 2014

Lectures	Class time: T-Th 13:15–14:30 Class room: L-HB 130
Instructor	Pablo Bianucci Office: L-SP-367.21 E-mail: pablo.bianucci@concordia.ca (preferred) Phone: 514-848-2424 ext 3352 Office hours: T–Th 14:30–15:30, and by appointment
Course description	The course covers chapters 23-34 of the textbook (material from chapters 32, 33, 34 will be treated with less detail): Electrical charge and Coulombs law. Electrical field and potential. Capacity, steady state, and transient currents. Electromagnetic induction and alternating currents. Plane waves.
Prerequisites	MATH 203; PHYS 204 or equivalent. The course is calculus based. You will need to be familiar with functions, trigonometry, and vectors (Appendix B of the textbook has a brief review of the calculus you will need).
Objectives	After this class, you are expected to have a working understanding of the concepts relevant to electricity and magnetism. This understanding will enable you to solve practical problems related to electric fields, currents, and magnetic fields.
Class materials	Textbook (required): “Physics for Scientists and Engineers” by R. Serway and J. Jewett (9th Ed.)
Important dates	Drop: 20/January/2015 (DNE), 8/March/2015 (DISC) Mid-term exam: 19/Feb/2015 (Subject to change) Final exam: Between 17/Apr/2015 and 2/May/2014
Assignments	Problems from the textbook will be assigned as homework every two weeks (for a total of 6 assignments), and posted in Moodle. The solutions must be entered in Moodle, no paper copies will be accepted.
Quizzes	There will be online quizzes (to be answered in Moodle) due before each class. It is your responsibility to check for those and submit your responses.
Marking scheme	Assignments 10%, Quizzes 10%, Mid-term exam 40%, Final exam 40% The course letter grade will be curved.
Missed mid-term exam	If you are unable to write the mid-term exam because of an incapacitating illness or other compelling reasons outside of your control you can apply to defer the weight of that particular mid-term exam to the final exam. Applications must be done in writing to the instructor with supporting documentation within 48 hours of the missed exam. Deferral of the weight of the mid-term exam is a privilege and not a right.

- Missed final exam** If you are unable to write the final exam because of medical or other compelling reasons outside of your control, follow the procedure defined by the Examination Office (<http://registrar.concordia.ca/exam>) to apply for a deferral. Deferral of the final exam is a privilege and not a right.
- In-class behaviour** Cell phones must be set to silent during class, and cannot be brought to exams.

Plagiarism

The most common offense under the Academic Code of Conduct is plagiarism which the Code defines as “the presentation of the work of another person as ones own or without proper acknowledgement.”

This could be material copied word for word from books, journals, internet sites, professors course notes, etc. It could be material that is paraphrased but closely resembles the original source. It could be the work of a fellow student, for example, an answer on a quiz, data for a lab report, a paper or assignment completed by another student. It might be a paper purchased through one of the many available sources. Plagiarism does not refer to words alone - it can also refer to copying images, graphs, tables, and ideas. “Presentation” is not limited to written work. It also includes oral presentations, computer assignments and artistic works. Finally, if you translate the work of another person into French or English and do not cite the source, this is also plagiarism.

In Simple Words: **Do not copy, paraphrase or translate anything from anywhere without saying from where you obtained it!**

Source: <http://provost.concordia.ca/academicintegrity/plagiarism>

Other useful information

- Department of Physics Undergraduate Program Director: Prof. J. Shin
- Concordia Counselling and Development: <http://cdev.concordia.ca/>
- Advocacy and Support Services: <http://supportservices.concordia.ca/>
- Student Transition Centre: <http://stc.concordia.ca/>
- New Student Program: <http://newstudent.concordia.ca/>
- Students with Disabilities: <http://supportservices.concordia.ca/disabilities/>
- Student Success Centre: <http://studentsuccess.concordia.ca/>
- The Academic Integrity Website <http://provost.concordia.ca/academicintegrity/>
- Health Services <http://www-health.concordia.ca/>