

Physics 2055 General Physics V: Electricity and Magnetism

Winter 2017

Prerequisites

Science 1087, Mathematics 2000 and PHYS 1051

Instructor

Dr. Stephanie Curnoe; Office: Room C-3003, Phone: 864-8888.

Please drop by my office if you have questions.

Lectures

Slot 05 (MWF 12-12:50)

Lecture Room: C2045

Labs

Section 001: Mondays 2-5

Section 002: Thursdays 9-12

Section 003: Tuesdays 2-5

Laboratory Room: C3061

Textbook

Required: Principles of Physics, Fifth Edition, Serway and Jewett

Recommended: Physics for Scientists and Engineers, by Serway and Jewett. Volume 2 (Chapters 23-46), 7th edition

Evaluation Scheme

- Assignments 20% (5-6)

Some assignments will be done using LonCAPA computer-based system. You will need your MUN number and a password to access these. Your passwords will be listed on D2L under "Grades". Assignments will due approximately every two weeks (approximate due dates are: January 20, February 3, February 17, March 10, March 22 and April 5).

- Mid-term examination 20% (Probable Date: Wednesday February 15, 2017)

If a student is unable to write the midterm examination due to acceptable cause, the final examination will be counted as 60% of the final grade (see 6.7.5, Exemptions from Parts of the Evaluation).

www.mun.ca/regoff/calendar/sectionNo=REGS-0628

- Laboratory 20%

Laboratories are mandatory. Each experiment must be completed. If a lab is missed due to illness, a request to make up the missed lab has to be made within seven days of the missed lab period to Dr. Chris Deacon. A minimum of 50% in the laboratory part of the course is required in order to pass the course.

- Final examination 40%

The final exam will be scheduled later in the semester. It will be a three hour exam.

Outline

Topic	Textbook	Lectures
Review: Electric Fields	19.4-19.7	1
Electric Flux and Gauss's Law	19.8-19.11	2
Electric Potential	20.1-20.6	2
Capacitance and Dielectrics	20.7-20.10	2
Electric Current	21.1-21.5	2
Direct Current Circuits	21.6-21.9	2
Magnetic Fields	22.2-22.11	3
Faraday's Law	23.1-23.4	1
Inductance	23.5-23.6, additional notes	3
AC Circuits	Notes to be provided	2
Electromagnetic Waves	Notes to be provided	4
Optics	Notes to be provided	8

Cells phones and recording devices

The use of cell phones is not allowed during lectures, laboratories, or exams. Lectures and labs may not be recorded in any format, by any device, including cell phones, without the written permission of Dr. Curnoe.

Other Information

- Academic Misconduct

A student is expected to adhere to those principles which constitute proper academic conduct.
www.mun.ca/regoff/calendar/sectionNo=REGS-0748

- Accommodations for Students with Disabilities

Memorial University of Newfoundland has a commitment to accommodate students with disabilities.
www.mun.ca/blundon/accomodations/