

PHYS 1021: Winter 2012

Slot 16; Sections 001, 004, 006

Instructor

Dr. Stephanie Curnoe

Office: Room C3003; Phone: 864-8888; Email: curnoe@mun.ca

Office hours: to be decided.

If you have questions please visit me in my office or catch me after class. Use email as last resort.

Lectures

Tuesdays & Thursdays 12:00-12:50 and Fridays 13:00-13:50.

All lectures are in Room IIC2001

Labs

Section 001: Mondays 2-4pm

Section 004: Wednesdays 2-4pm

Section 006: Fridays 9-11am

All labs are in Room C2038

Prerequisites

PHYS 1020 or 1050 and MATH 1090 or 1000 (MATH 1000 may be taken concurrently.)

Evaluation Scheme

Assignments (LON-CAPA) 10%

LON-CAPA Assignment Workbook 2%

Problem Sessions 3%

Laboratory 10%

Two term tests (February 7 and March 13, 2012 12:00-12:50 in IIC2001) 30%

Final examination 45%

- A minimum of 50% in the laboratory part of the course is required in order to pass the course.
- Supplementary exam **is** available (see the University Calendar).

Textbook

PHYSICS 8^e by Cutnell and Johnson

Labs and Tests

- If you are repeating this course **then you must also repeat the laboratories.**
- **If you miss a lab you will get zero** unless you have made arrangements with the instructor in advance OR if you have a doctor's note.
- **If you miss a problem set period you will get zero** unless you have made arrangements with the instructor in advance OR if you have a doctor's note.
- **If you miss a test you will get zero** unless you have made arrangements with the instructor in advance OR if you have a doctor's note.

Other Information

- Class handouts, LON-CAPA ID and lab marks are available on D2L:
<https://online.mun.ca/>
- Assignments are administered using LON-CAPA:
<http://loncapa.physics.mun.ca/>
- Keep your hand-written solutions for LON-CAPA assignment problems in a bound "LON-CAPA Assignment Workbook". Download a copy of the "LON-CAPA Assignment Workbook Sign Sheet" from D2L and attach it to the front of your LON-CAPA Assignment Workbook. Ask the instructor or someone at the Physics Help Centre to sign your LON-CAPA Assignment Workbook Sign Sheet after you finish each assignment, but no later than the due date of the next assignment.
- Students can get help with course material and assignments at the Physics Help Centre, located in Room C3071.

Outline

Chapter	Title	Sections	Lectures	Notes
10	Simple harmonic motion and elasticity	1 to 6	5	Sections 5 and 6 are covered qualitatively
16	Waves and sound	1 to 12	4	Sections 4 and 6 are covered qualitatively
17	Linear superposition and interference phenomena	1 to 7	4	Section 7 is covered qualitatively
11	Fluids	1 to 12	6	Section 11 is covered qualitatively
18	Electric forces and electric fields	1 to 8 10, 11	3.5	Section 10 is covered qualitatively
19	Electric potential energy and electric potential	1, 2 6, 7	2.5	Section 6 is covered qualitatively
20	Electric circuits	1 to 9 11, 14, 15	5	Section 14 is covered qualitatively
21	Magnetic forces and magnetic fields	1 to 10	4	

Laboratory Schedule

January 9 to January 13	Experiment 1: Introduction to Simple Harmonic Motion
January 16 to January 20	Problem Set 1
January 23 to January 27	Experiment 2: Standing Waves
January 30 to February 3	Problem Set 2
February 6 to February 10	Experiment 3: Sound Waves in Pipes
February 27 to March 2	Experiment 4: Buoyancy
March 5 to March 9	Problem Set 3
March 12 to March 16	Experiment 5: Magnetic Field in a Plane Circular Coil
March 19 to March 23	Experiment 6: DC Circuits
March 26 to March 30	Problem Set 4