

SAMPLE COURSE OUTLINE

Creation date: October 28, 2020

Revision date:

Course Code, Number, and Title:

PHYS 1114: Basic Physics

Course Format:

[Course format may vary by instructor. The typical course format would be:]

Lecture 4.0 h + Seminar 0.0 h + Lab. 2.0 h

Credits: 4.00

Transfer Credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

A general course for students who have had no previous physics background. The course covers mechanics, heat, sound, optics, and electricity at the introductory level in the classroom and in the laboratory.

Precalculus 11 with "C" grade or higher, or MATH 1150 with "S", or MDT 70 or higher.

Learning Outcomes:

It is expected that students will acquire the basic skills and knowledge necessary to:

- Describe, explain, and predict how objects move when they are subject to constant forces.
- Understand and use the concepts of energy and linear momentum conservation.
- Solve problems involving fluids, waves, sound, electricity, light.
- Demonstrate an understanding of fluids, waves, sound, electricity, light.
- Solve problems (at the level of the course) using rigorous problem-solving techniques including graphical and dimensional analysis.
- Take proper measurements in a laboratory.
- Write rudimentary laboratory reports.

The methods learned have wide applicability to other scientific and technological fields as well as to everyday problem solving.

Instructor(s): TBA

Office: TBA

Phone: (604) 323-XXXX

Email: TBA

Office Hours: TBA

"This generic outline is for planning purposes only".

Textbook and Course Materials:

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

Note: This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.

Assessments and Weighting:

Final Exam 20%

Other Assessments 60%

(An example of other assessments might be:)

Term tests: 25%

Quizzes: 10%

Oral exam: 10%

Submission Problems: 8%

In-class worksheets: 7%

Grading System:

Specific grading schemes will be detailed in each course section outline.

Information unavailable, please consult Department for details.

Topics Covered:

[Topics covered may vary by instructor. An example of topics covered might be:]

- Introduction, Math Tools, Forces & Equilibrium
- Forces and Equilibrium
- Mathematics of Vectors
- Inertia, Momentum and Motion
- Newton's 2nd Law + 1D
- Energy
- Waves and Sound
- Electricity
- Optics

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As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

[E2011 - Withdrawal from Courses](#)

Departmental/Course Policies:

Information unavailable, please consult Department for details.

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