Instructor
Hossain Ahmed

Phone & Email
867-3880
hahmed@stfx.ca
Office: NFSC 1009

Lab Instructor
Jamie Powell

Phone & Email
867-2302
jpowell@stfx.ca
Office: NFSC 1018

Student Hours
10:00 -11:00 am, Monday
11:00 am – 1:00 pm, Tuesday

Class Time & Location

Tuesday: 9:30 – 10:20 am
Thursday: 8:30 – 9:20 am
Friday: 10:30 – 11:20 am

Location: MULH 2034 (Tuesday and Thursday)
KC1018A (Friday)

Labs and Tutorials
Wednesday & Thursday: 2:30 – 5:15pm
Labs: PS 1012: starts on January 10, 2024
Tutorials: PS 3046: starts on January 17, 2024

*Labs are in every second week, alternating with tutorials!
* **Jamie Powell** is the primary contact for the Lab Section

ST. FRANCIS XAVIER UNIVERSITY

Subject Name: Phys 102, Winter 2024

Physics for the Life and Health Sciences II

Course Overview

Physics (PHYS) 102 is an introductory algebra-based course aimed at students in the life and health sciences. This course covered thermodynamics, Oscillation and waves, optics, and an overview of electricity and magnetism. Previous physics experience would be an asset but is not required. This is three credits and a lab course.

The experimental lab is a significant part of this course, and students must attend all the labs and actively perform each experiment. **Jamie Powell (**jpowell@stfx.ca**)** is the primary contact for the lab section. Lab announcement and lab material will be available on the "Moodle Page" https://moodle.stfx.ca/course/view.php?id=34604. Tutorials are mandatory and take place on the same day of your lab week but the alternate week.

N. B.: I strongly suggest students understand the lab procedure and mark scheme from *Jamie Powell* in the first lab!

Additional Course Information

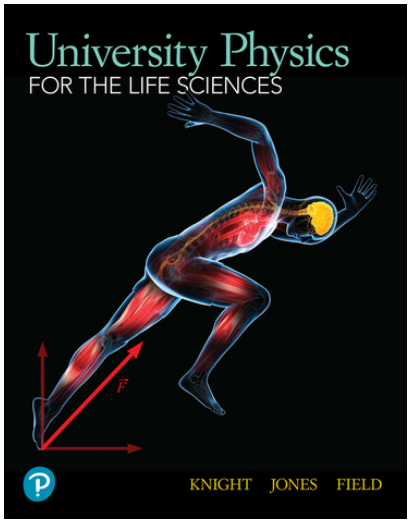
Class participation, textbook consultation, doing assignments, and participating in-class quizzes are the key to success in this course. Class attendance is strongly recommended, and students are responsible for collecting information from the classes.

Learning Objectives

By the end of this course, students will be able to:

- Explain the phenomenon of thermodynamics, oscillations and waves, and optics.
- Demonstrate electric charge and their influence on electricity and magnetism.
- Be skilled in problem-solving on above mention topics.

Textbook: University Physics – for the life sciences (first edition) by Knight, Jones, and Field



** Textbook is available in the StFX bookstore.

Course webpage: https://moodle.stfx.ca/course/view.php?id=33622
Online classroom (if required): https://ca-lti.bbcollab.com/collab/ui/scheduler/session

Mastering Physics: Students are required to have mastering physics (MP) access code for assignments and learning catalytics!

Website: https://mlm.pearson.com/northamerica/masteringphysics/

Register as student
The Course ID: ahmed27981
The Course Title: Physics for the Life and Health Sciences II (Phys 102)
Book: University Physics – for the Life Sciences (first edition(1e))

Register as soon as possible. The first assignment will be given in the second week of classes!

Continuing Students: For any troubles with MP access, contact **Jeremy Guimond** directly at (Jeremy.Guimond@PearsonEd.com). Do not buy the new code!

** New students must buy the book and MP code!

Course Evaluation

Class attendance is highly recommended, and students are responsible for collecting information from the classes. The mark scheme will be:

Category	Marks
In-class activities (learning catalytics, tutorial attendance etc.)	5%
Assignments (5)	15%
Quizzes (3)	12%
Labs	15%
Midterm	15%
Final	38%
Total	100%

Lab Grading Policy:

If you fail to provide complete lab notebook work for any one experiment, your lab grade will be reduced by 20 percentage points.

If you fail to provide complete lab notebook work for any two experiments, you will receive a zero for the lab portion of the course, regardless of your performance on other experiments, or lab exam.

If you fail to provide complete lab notebook work for any three or more experiments, you will receive a zero for the lab grade, and your mark for the entire course will not be more than 49/100, regardless of your performance on assignments, midterms and exams.

There are five assignments and three in-class quizzes throughout the semester. Solving assignments and questions in tutorials and quizzes will significantly help you succeed in the course. Discussion with other students on assignment questions is always welcomed but make sure you can do the problems yourself as all in-class exams are closed books, and you will be working on exams yourself. Late submission without a valid reason will affect your grade!

	Assignment	Assignment	
	Handing out	Due	Quiz
01	Jan. 17	Jan. 25	
02	Jan. 31	Feb. 08	Feb. 09
03	Feb. 28	Mar. 07	Mar. 15
04	Mar. 13	Mar. 21	Apr. 05
05	Mar. 27	Apr. 04	

Exams

Quizzes: In class
Midterm: 16 February 2023 (Friday) [Time: 10:30 am – 11:20 am]
Lab exam: TBA
Final: The final exam date will be set by the University registrar.

Course Contents

Note: Due to COVID and future unseeable circumstances, we might not have enough time to finish all the chapters. In this scenario, we will discard the last few chapters in Magnetism!

Academic Integrity

The university has a strict policy against academic dishonesty. For a precise definition of what St. Francis Xavier University considers to be academic dishonesty, please refer to https://www.stfx.ca/applications-admissions/registrars-office/academic-integrity. It is your responsibility to know what constitutes academic dishonesty.