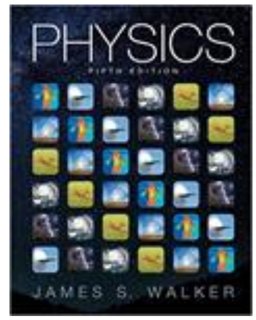
PHYS 1021-Introductory Physics II

Winter 2025

Class Times: 12:00-12:50: Tuesday and Thursday; 1:00-1:50: Fridays
Location: IIC2001

Instructor



- Dr. James LeBlanc - Office: C-3031
- e-mail: jleblanc@mun.ca
  DO NOT use the messenger in D2L
- Office hours: Anytime – arrange in advance via email

Textbook

- Physics by James Walker - 5th Edition
  with Mastering Physics access
- We will cover the following:
  - Oscillations (Ch.13, Sec.13.1 – 13.8)
  - Waves and Sound (Ch. 14, Sec. 14.1 – 14.9)
  - Fluids (Ch. 15, Sec. 15.1 – 15.9)
  - Electric Charges 19, Sec., Forces, and Fields (Ch. 19.1 – 19.6)
  - Electric Potential and Electric Potential Energy (Ch. 20, Sec. 20.1, 20.2, 20.4)
  - Electric Currents and Direct-Current Circuits (Ch. 21, Sec. 21.1 – 21.4)
  - Magnetism (Ch. 22, Sec. 22.1 – 22.8)

Pre-Requisites: Physics 1020 or 1050 and Science 1807 and Science 1808

Description: https://www.mun.ca/physics/undergraduates/syllabus/physics-1021-introductory-physics-ii/

Mastering Physics (MP) Online Assignments- The assignments in this course will be done using the Mastering Physics online assignment system. To gain access to the assignments you MUST purchase the textbook with Mastering Physics access code. To access the assignments you must login through D2L **PHYS-1021** and click on the Pearson widget. There will be approximately one assignment per chapter.

Labs: Are located in C2038 – prelabs and lab instructions can be found here.

- **All** lab concerns and questions should be directed to the lab instructor
  Dr Marek Bromberek (c83mwb@mun.ca).
- A detailed lab schedule can be found at the end of this outline.
- You must notify the lab instructor in writing within 48 hours for any absences.
- **You must pass the labs to pass the course.**
- There are no lab waivers for students repeating the course.

Problem Sessions

- Problem sets will be held during your lab period in room C-2038 (see schedule).
- There will be time to work on problems with help from lab staff and TAs.
- You must notify the lab instructor in writing within 48 hours for any absences.

Course Evaluation

Evaluation Scheme	
Assignments (Mastering Physics)	10%
Lab Reports	15%
Problem Sessions	10%
Term Test 1 (Feb. 11th)	12.5%
Term Test 2 (Mar. 18th)	12.5%
Final Exam	40%
Total	**100%**

Important Regulations

- The term tests are each 12.5%. If you miss a test due to illness inform your instructor by email within 24 hours of the test date. The grade value of the test will then be added to your final exam.
- The final exam date and location will be set by the registrar's office.

Use of AI

Original work, completed wholly by you, is expected to be submitted in this course. The use of an artificial intelligence tool like ChatGPT is not permitted.

Use of Recording Devices in Classrooms

All classes for this course, unless otherwise notified, will be recorded using the MUN lecture capture service. Comments and questions by those present in the class may be captured in the audio of the recording. Additionally, student presentations/participation may be captured on video.

The lectures and displays (and all material) delivered or provided in this course, including any visual or audio recording thereof, are subject to copyright owned by Dr. James LeBlanc. It is prohibited to record or copy by any means, in any format, openly or surreptitiously, in whole or in part - in the absence of express written permission from Dr. James LeBlanc - any of the lectures or materials provided during or from the course.

Communication and Course Continuity

In the case of a class disruption or cancellation, and in the case of revisions to evaluation methods, the instructor or the Head of the department will notify all students registered in the course via the course shell in Brightspace. Any necessary revisions to the evaluation methods will be made in consultation with the students registered in this course. If a student demonstrates that they would be disadvantaged by the change, then, as per 6.7.4 of the University Calendar, accommodations will be made.

Important general information from the University

It is the student's responsibility to acquaint themselves with these items. Please read.

Missed Work: Students who cannot complete assignments or midterm tests need to speak to the instructor and consult the University Calendar, University Regulations.

Section 6.7.5: Exemptions from Parts of the Evaluation: Exemptions

Student Code of Conduct: Code of Conduct

6.8.2 Exemptions From Final Examinations
http://www.mun.ca/regoff/calendar/sectionNo=REGS-0628

6.12 Academic Misconduct
http://www.mun.ca/regoff/calendar/sectionNo=REGS-0748

Accommodations for Students with Disabilities
Memorial University of Newfoundland is committed to supporting inclusive education based on the principles of equity, accessibility and collaboration. Accommodations are provided within the scope of the University Policies for the Accommodations for Students with Disabilities (here).

Students who may need an academic accommodation are asked to initiate the request with the Glenn Roy Blundon Centre at the earliest opportunity. (http://www.mun.ca/blundon/accommodations/)

Wellness and Student Support:
Your mental well-being is important. Don't hesitate to make use of available support:

Student Support: http://www.mun.ca/currentstudents/student/
Wellness and Counselling: http://www.mun.ca/currentstudents/wellness/
Academic Support: http://www.mun.ca/currentstudents/academic/

Physics 1021 - Winter 2025

Monday	Tuesday	Wednesday	Thursday	Friday
06/01/2025	Jan/7 Lectures Begin	Jan/8	Jan/9	Jan/10
Jan/13 Experiment 1 Simple Harmonic Motion	Jan/14	Jan/15 Experiment 1 Simple Harmonic Motion	Jan/16 Experiment 1 Simple Harmonic Motion	Jan/17 Experiment 1 Simple Harmonic Motion
Jan/20 Problem Set 1	Jan/21	Jan/22 Problem Set 1	Jan/23 Problem Set 1	Jan/24 Problem Set 1
Jan/27 Experiment 2 Standing Waves	Jan/28	Jan/29 Experiment 2 Standing Waves	Jan/30 Experiment 2 Standing Waves	Jan/31 Experiment 2 Standing Waves
Feb/3 Problem Set 2	Feb/4	Feb/5 Problem Set 2	Feb/6 Problem Set 2	Feb/7 Problem Set 2
Feb/10 Experiment 3 Sound and Resonance	Feb/11 **Midterm Exam 1**	Feb/12 Experiment 3 Sound and Resonance	Feb/13 Experiment 3 Sound and Resonance	Feb/14 Experiment 3 Sound and Resonance
Feb/17 Experiment 4 Buoyancy	Feb/18	Feb/19 Experiment 4 Buoyancy	Feb/20 Experiment 4 Buoyancy	Feb/21 Experiment 4 Buoyancy
Feb/24 Break	Feb/25 Break	Feb/26 Break	Feb/27 Break	Feb/28 Break
Mar/3 Experiment 5 Electric Field and Potential	Mar/4	Mar/5 Experiment 5 Electric Field and Potential	Mar/6 Experiment 5 Electric Field and Potential	Mar/7 Experiment 5 Electric Field and Potential
Mar/10 Problem Set 3	Mar/11	Mar/12 Problem Set 3	Mar/13 Problem Set 3	Mar/14 Problem Set 3
Mar/17 Experiment 6 Vector Nature of Magnetic Field	Mar/18 **Midterm Exam 2**	Mar/19 Experiment 6 Vector Nature of Magnetic Field	Mar/20 Experiment 6 Vector Nature of Magnetic Field	Mar/21 Experiment 6 Vector Nature of Magnetic Field
Mar/24 Problem Set 4	Mar/25	Mar/26 Problem Set 4	Mar/27 Problem Set 4	Mar/28 Problem Set 4
Mar/31 Free Period	Apr/1	Apr/2 Free Period	Apr/3 Free Period	Apr/4 Free Period
Apr/7 No Labs	Apr/8	Apr/9 Lectures End	Apr/10	Apr/11
Apr/10	Apr/11	Apr/12 Exams Begin	Apr/13	Apr/14