



COURSE OUTLINE

1. **Course:** PHYS 355, Electromagnetic Theory I - Winter 2021

Lecture 01: TR 11:00 - 12:15 - Online

Instructor	Email	Phone	Office	Hours
Dr. Anna Harlick	anna.harlick@ucalgary.ca	403 220-8648	SB 533	Posted on D2L after student consultations

Online Delivery Details:

Some aspects of this course are being offered in real-time via scheduled meeting times. For those aspects you are required to be online at the same time.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor’s permission.

This course has a registrar scheduled, synchronous final exam. The writing time is 2 hours + 50% buffer time.

The class will meet during regularly scheduled times (TR, 11:00 - 12:15) for **the synchronous, recorded** lecture.

The formative assessment activities administered during class will be available to the students for 24 hours after the end of the class. The summative assessments (bi-weekly quizzes) will open according to the schedule shown in Table 1.3

The recorded lectures will be posted by 9:00 am of the following day.

The location and passwords of Zoom sessions will be available on D2L. The session will be accessible through D2L. Students are required to use their actual names and access the session using the Zoom account associated with their @ucalgary e-mail address

A detailed schedule of the class topics and due dates of all course components are included in Table 13.1 in the Addendum.

Course Site:

D2L: PHYS 355 L01 - (Winter 2021) - Electromagnetic Theory I

TOPHAT: W2021PHYS355L01, Join Code: 690618

Note: Students must use their U of C account for all course correspondence.

Laboratories

There are 5 laboratories scheduled during the semester. Table 1.1 shows the tentative schedule of the experiments; the exact dates will be posted on D2L on the first day of classes.

There will be two types of laboratories: remote labs and simulations. Remote laboratories will be done synchronously, the simulations will be completed asynchronously.

Remote labs will require a laboratory report (group) submitted to the appropriate dropbox at 13:59, seven days after the experiment taking place. Simulations will require a (guided) analysis, completed individually and due at 13:59 on Monday following the week during which the simulation is scheduled.

The dropboxes will remain open until 21:59 on the day the submission is due.

Table 1.1 Laboratory Schedule

Dates	Format	Topic
25 Jan - 29 Jan	Simulation	Electric Fields
Requisites:		

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

Prerequisite(s):

Physics211 or 221 or 227; and Mathematics 375 or 376. Also known as: (formerly Physics 255)

2.

Grading:

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar.

In determining the overall grade in the course the following weights will be used:

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

Course Component	[%]	Notes
Quizzes	30	5 quizzes scheduled for weeks 03, 05, 08, 10 & 12; worth 6% each. Administered on D2L, during the Tuesday class. 45 minutes exam time, 75 minutes allowed; 10 questions each, graded out of 9; The weight of the lowest quiz may be replaced by the FE IF the FE grade is higher. See Table 1.2 for details

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Minimum % Required	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

This course will have a final exam that will be scheduled by the Registrar. [The Final Examination Schedule](#) will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within 2 hours.

The final exam will be administered using an on-line platform. Per section [G.5](#) of the online Academic Calendar, timed final exams administered using an on-line platform, such as D2L, will be available on the platform. **Due to the scheduling of the final exams, the additional time will be added to the end of the registrar scheduled synchronous exam to support students. This way, your exam schedule accurately reflects the start time of the exam for any synchronous exams. E.g. If a synchronous exam is designed for 2 hours and the final exam is scheduled from 9-11am in your student centre, the additional time will be added to the end time of the synchronous exam. This means that if the exam has a 1 hour buffer time, a synchronous exam would start at 9 am and finish at 12pm. - updated April 6, 2021**

Deadline Policies:

1. All extensions on the [laboratory reports deadlines](#) are to be negotiated with the appropriate section TA.
2. [Assignment deadlines](#) are flexible for the online component (all assignments remain open 7 days after due date) and **firm** for the written components (due on the assignment due date in an appropriate dropbox). No: late submissions of written portion will be accepted. In extenuated circumstances an extension can be granted; but needs to be requested 24 hours before the assignment deadline.
3. [All components](#) are due at 13:59 (1:59 pm) on the due date; the dropbox will remain open until 5:00 pm.

3.

Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, then the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course.

Weight of the missed quizzes needs to be requested to be moved to the final exam within 48 hours from missing the component.

In case of missed laboratories the arrangements to make up missed work need to be discussed with the course instructor.

If an extension is needed on an asynchronous component (assignments, labs), it needs to be requested by e-mail (anna.harlick@ucalgary.ca) 24 hours before the due date. The requests will

be considered and extensions will be granted on a case-by-case basis.

4. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

5. **Course Materials:**

Recommended Textbook(s):

Ruth W. Chabay and Bruce A. Sherwood, *Matter & Interactions*: Wiley.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

6. **Examination Policy:**

Exams are **synchronous** open-resource exams and students can use any and all available resources that will help them to complete the exams INDIVIDUALLY.

Collaboration on the bi-weekly quizzes and exams is not permitted. Any suspicious activities will be reported and investigated according to Section K, "Integrity and Conduct" of the "Academic Regulations" section of the University of Calgary Calendar.
<https://www.ucalgary.ca/pubs/calendar/current/k.html>

By taking the exam the student declares that they are completing their work **by themselves, with the aid of notes, textbooks, lectures, and other course approved online resources, with no third party involved in their evaluation.** This includes no use of file sharing websites and services that are not affiliated with the University of Calgary. Students should also read the Calendar, Section G, on Examinations.

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7. **Approved Mandatory And Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course.

8. **Writing Across The Curriculum Statement:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also [Section E.2](#) of the University Calendar.

9. **Human Studies Statement:**

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

10. **Reappraisal Of Grades:**

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar

- b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of

the University Calendar.

11.

Other Important Information For Students:

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).

- b. **SU Wellness Services:** For more information, see www.ucalgary.ca/wellnesscentre or call [403-210-9355](tel:403-210-9355).

Sexual

- c. **Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email (svsa@ucalgary.ca) or phone at [403-220-2208](tel:403-220-2208). The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>)

- d. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)
Student Academic Misconduct [Policy](#) and [Procedure](#)
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- e. **Academic Accommodation Policy:** Students needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at [procedure-for-accommodations-for-students-with-disabilities.pdf](#).

Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Associate Head of the Department of Physics & Astronomy, Dr. David Feder by email phas.ahugrd@ucalgary.ca or phone 403-220-8127. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question. See [Section E.4](#) of the University Calendar.

Freedom of Information and

- f. **Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.

Student Union

- g. **Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: sciencerep@su.ucalgary.ca. [Student Ombudsman](#), Email: ombuds@ucalgary.ca.

- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.

Copyright of Course

- i. **Materials:** All course materials (including those posted on the

course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

Course Schedule:

Table 13.1. Tentative course schedule for PHYS 355. The general topic for the class as well as the exact chapters/ sections of the textbook are indicated. Stars indicate a synchronous, recorded class.

		Lectures		
		Topic	Ch. Sec	Class
Week 01	11-Jan	Electronically Approved - Apr 06 2021 16:55 <hr style="width: 20%; margin: 10px auto;"/> Department Approval		