

September - December 2024

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dYcd`Yg`k`cgY`h`]ghcf]W`fY`Uh]cbg`]dg`k`]h`h`Y`UbX`V`bh]bi`Y`hc`h`]g`XUm`

Dr. Heather Russell
hrussell@uvic.ca
Elliot 206

We will use brightspace
Fridays, 13: 30 - 14: 30 in Elliot 206

Tuesdays, Wednesdays, and Fridays at 10: 30 – 11: 20, in person.
First lecture: Wednesday, 4 September 2024 @ 10: 30

Fridays, 8: 30 - 9: 20, in person (recordings will be available.

First tutorial:

If you send me an email, please start the subject with "PHYS 321A".

I will be available Tuesday afternoons for pre-booked appointments if you would like to meet outside office hours. Please book a time slot here: https://calendly.com/hrussell_p321a. These meetings can be in person or over zoom.

(PHYS 110/111 or PHYS 120/130) and MATH204 and (PHYS/MATH 248 OR CSC 226 OR CSC 349A)
MATH342 or MATH346

7`Ugg]W`A`Y`W`Ub]V`ž`5th Edition, Tom Kibble and Frank H Berkshire

Additional resources that might be helpful:

- Feynman lectures, volume 1 (available online for free: https://www.feynmanlectures.caltech.edu/I_toc.html)
- Notes from David Tong, *8mbUa`]V`g`UbX`F`Y`Uh]j`]fm`*
<http://www.damtp.cam.ac.uk/user/tong/relativity.html>
- *5bU`mh]W`A`Y`W`Ub]V`ž`* Fowles and Cassiday
- More advanced: *A`Y`W`Ub]V`g`* by Landau and Lifshitz
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- General particle motion
- Central forces (including gravitation and Kepler's Laws)
- Dynamics of Systems of Particles
- Dynamics of Oscillatory Systems

There will be two midterm exams held in class during class time

- Midterm Exam 1: Friday, 18 October 2024
- Midterm Exam 2: Friday, 15 November 2024

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There will a cumulative final exam during the December exam period. The date is centrally scheduled, and normally finalized in late October. You must write the final exam to obtain credit for this course, and you must exhibit adequate performance in the final exam to get credit for this course.

You will be allowed to bring one, double-sided 8.5"x11" page of handwritten notes and a calculator. The only acceptable calculator is the Sharp EL-510R, as per department policy.

For exams, you would be required to log into a Zoom session; you would be required to share a webcam image, and you may be required to share your microphone or your computer screen; you would be expected to use a device which is capable of doing this; you would be expected to have a connection with enough bandwidth to support this requirement.

Labs start the week of 9 September. This first week of labs will contain introductory session—

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contribute, explore, and challenge their own ideas as well as those of others. Every participant has an active responsibility to foster a climate of intellectual stimulation, openness, and respect for diverse perspectives

- c. University Health Services provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives:
<https://www.uvic.ca/student-> _____