Course Outline

PHYS 2203: Astronomy (Fall 2023)
Department of Physics, Carleton University

General information:

Instructor: Prof. Yue Zhang
Office: Room 3324 Herzberg Laboratories
Email: yuezhang13@cunet.carleton.ca
(Please include “PHYS-2203” in the subject line for all communications.)
Teaching assistant: Jeremie LePage-Bourbonnais
Class date/time: 10:05 – 11:25 AM, Mondays and Wednesdays
First day of class: September 6th, 2023
Last day of class: December 8th, 2023
Class location: [redacted]
Office hour: Wednesdays 12:30 – 1:30 PM

Course Information:

Course description: The observational basis of astronomy. The history of astronomy, properties of light, solar system observations and stellar astronomy.

Precludes additional credit for PHYS 1901 and PHYS 1902.

Prerequisites: PHYS 1002 or PHYS 1004 or permission of the department. PHYS 1008 with a grade of B- or better may also be used if MATH 1004 or MATH 1007 or MATH 1002 or MATH 2052 have been successfully completed.

Textbook:


Course web page:

Homework assignments and lecture materials will be posted over Brightspace, to log in, go to https://brightspace.carleton.ca/. Please check it on a regular basis. Additional email communications will take place as needed.
Evaluation:

Homework assignments (45%):
There will be 6 to 8 written homework problems assigned on Wednesdays during the term, and they will be due at the beginning of class on Wednesday the week after they were assigned. All the material you need to solve them will have been presented in class: Google searches are strongly discouraged.

You are encouraged to study together, and write separately. **The work you hand in must be your own.** Late assignments will not be accepted, unless permission is received from the professor for documented reasons. Replicated / copied / plagiarized assignments will receive a grade of zero.

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Midterm Exam (20%):
The midterm exam will be during the regular lecture period on Wednesday October 18th. The midterm exam will be closed book and closed notes. A formula sheet will be provided.

Final Exam (35%):
There will be a 3-hour written final exam, during the final examination period in December. The final exam will be closed book and closed notes. A formula sheet will be provided.

The final exam is a requirement to successfully complete this course.

Important Dates:

September 6, 2023: Fall term begins. First Day of Class.
October 9, 2023: Statutory holiday. University closed.
October 23-27, 2023: Fall break, no classes.
November 15, 2023: Last day for academic withdrawal from fall courses.
December 8, 2023: Fall term ends. Last Day of Class. Classes follow a Monday schedule.
December 10-22, 2023: Final examinations in full fall and late fall courses and midterm examinations in fall/winter courses will be held. Examinations are normally held all seven days of the week.
December 25, 2023 through January 3, 2024 inclusive: University closed.
Academic-Accommodation
You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

Pregnancy-Obligation:
Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For accommodation regarding a formally-scheduled final exam, you must complete the Pregnancy Accommodation Form [click here].

Religious-Obligation:
Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details [click here].

Academic-Accommodations for Students with Disabilities:
The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable).

Survivors of Sexual Violence
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carleton’s Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: https://carleton.ca/equity/sexual-assault-support-services

Accommodation for Student Activities
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation will be provided to students who compete or perform at the national or international level. Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist: https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf
UNIVERSITY POLICY
In accordance with the Carleton University Undergraduate Calendar Regulations, the letter grades assigned in this course will have the following percentage equivalents:

- A+ = 90-100
- B+ = 77-79
- C+ = 67-69
- D+ = 57-59
- A = 85-89
- B = 73-76
- C = 63-66
- D = 53-56
- A- = 80-84
- B- = 70-72
- C- = 60-62
- D- = 50-52
- F = <50

Academic Integrity
Academic misconduct undermines the values of honesty, trust, respect, fairness, and responsibility that we expect in this class. Carleton University provides supports such as academic integrity workshops to ensure, as far as possible, that all students understand the norms and standards of academic integrity that we expect you to uphold. Your teaching team has a responsibility to ensure that their application of the Academic Integrity Policy upholds the university’s collective commitments to fairness, equity, and integrity. (adapted from Carleton University’s Academic Integrity Policy, 2021).

Examples of actions that do not adhere to Carleton’s Academic Integrity Policy include: • Plagiarism • Accessing unauthorized sites for assignments or tests • Unauthorized collaboration on assignment and exam

Sanctions for not abiding by Carleton’s Academic Integrity Policy
A student who has not adhered to Carleton’s Academic Integrity Policy may be subject to one of several sanctions:

1. If you take full responsibility for your actions, and it is the first time you have violated the policy, you will receive zero on the assessment. If you are found to have violated the policy but do not take responsibility, an additional grade deduction will be applied (e.g. an A- will become a B+)
2. Subsequent violations of the policy may result in more severe sanctions such as failing the course, suspension from all studies and/or expulsion.

Process of an Academic Misconduct Investigation
Step 1: The instructor believes misconduct has occurred and submits documentation to the Dean of the Faculty of Science.
Step 2: The Dean reviews documentation and can proceed with or dismiss the allegation.
Step 3: If sufficient evidence, the student receives an allegation statement by email. Ombuds services is copied on the email.
Step 4: The student provides a written response to the evidence provided.
Step 5: Either party may request a meeting between student, dean, and the ombudsperson.
Step 6: Dean informs the student of the decision.
Appeal: Student has the right to appeal the decision.

Additional details about this process can be found on the Faculty of Science Academic Integrity website. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy. The Policy is strictly enforced and is binding on all students.

Plagiarism
Plagiarism is the passing off of someone else's work as your own and is a serious academic offence. For the details of what constitutes plagiarism, refer the Faculty of Science Academic Integrity website. To
further understand Academic Integrity, consider attending the Learning and Support Academic Integrity Workshop. Summer 2022

What are the Penalties for Plagiarism? A student found to have plagiarized an assignment may be subject to one of several penalties including: expulsion; suspension from all studies at Carleton; suspension from full time studies; and/or a reprimand; a refusal of permission to continue or to register in a specific degree program; academic probation; award of an FNS, Fail, or an ABS.

What are the Procedures?
3. All allegations of plagiarism are reported to the Dean of Faculty of Science. Documentation is prepared by instructors and/or departmental chairs.
4. The Dean writes to the student and the University Ombudsperson about the alleged plagiarism.
5. The Dean reviews the allegation. If it is not resolved at this level then it is referred to a tribunal appointed by the Senate.

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https://carleton.ca/registrar/academic-integrity/

Assistance for Students
Academic and Career Development Services: https://students.carleton.ca/departments/career-services/
Writing Services: http://www.carleton.ca/csas/writing-services/
Peer Assisted Study Sessions (PASS): https://carleton.ca/csas/group-support/pass/
Math Tutorial Centre: https://carleton.ca/math/math-tutorial-centre/
Science Student Success Centre: https://sssc.carleton.ca/

Special Information for Pandemic Measures
Carleton will continue to follow all public health guidelines as the COVID-19 pandemic continues. Instructors may find it helpful to review the guidelines for in-class teaching and labs. Both guideline documents are available on the COVID-19 website.

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are a number of actions you can take to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you’re sick, washing your hands and maintaining proper respiratory and cough etiquette.

Feeling sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton’s symptom reporting protocols.

Masks: Carleton has paused the COVID-19 Mask Policy, but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

Vaccines: Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of
vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in cuScreen as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton’s COVID-19 response and health and safety requirements please see the University’s COVID-19 website and review the Frequently Asked Questions (FAQs). Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

Important Dates for 2023-24
A full list of important dates is available on the Calendar website. Please note that the academic withdrawal dates have changed recently. Consult the Calendar website for the most updated information: https://calendar.carleton.ca/academicyear