

UNIVERSITY OF CALGARY  
DEPARTMENT OF PHYSICS and ASTRONOMY  
**COURSE OUTLINE**

1. Course: **PHYSICS 369, Acoustics, Optics and Radiation (for students in Engineering)**

**L01/L02:** TuTh, 12:30-13:45, EN A201 **Instructor, Dr. D. Knudsen** Office SB 638 Tel. 220-8651 [knudsen@ucalgary.ca](mailto:knudsen@ucalgary.ca)  
**L03/L04:** TuTh, 12:30-13:45, ST 148 **Instructor: Dr. A. Louro** Office SB 533 Tel. 220-8648 [louro@ucalgary.ca](mailto:louro@ucalgary.ca)

**Phys 369 Course coordinator: Dr. R.B. Hicks** Office SB 531 Tel. 220-3443 [hicks@ucalgary.ca](mailto:hicks@ucalgary.ca)

**OFFICE HOURS:** Dr. Knudsen: TBA Dr. Louro: TBA Dr. Hicks: By appointment 220-3443

Course BLACKBOARD (Bbd) site: F2012PHYS369ALL: PHYS 369 All Lectures - (Fall 2012) - Acoustics

Course grades website: <http://webapps3.ucalgary.ca/~dppvan/phys369/grades/fall/index.php>

Physics departmental Office: SB 605, Tel. 220-5385. Web Site: <http://phas.ucalgary.ca/>

2. **PREREQUISITES:** Applied Mathematics 217, 219, Physics 259.

Note: In Physics 369, we follow the policy of the Schulich School of Engineering regarding prerequisite courses. A student may not register in Physics 369 unless a grade of at least "D" has been obtained in each prerequisite course, and the student's previous GPA is at least 2.00. It is the responsibility of students to ensure that their registrations are in order.

3. **GRADING:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Clickers	2%
Assignments (8)	18%
Laboratory experiments (5)	20%
Common Midterm test	20% (Thu Oct. 25, evening, 7:00–8:30 pm, rooms TBA)
Final Examination	40% (To be scheduled by the Registrar)

Percentage grades will be given for all elements of term work and examinations in Physics 369. A weighted course percentage will be calculated for each student after the final exam is written. A table of conversion from final course percentage to final course letter grade can be found on p. 2 of the Additional Course Information documents posted on Bbd.

4. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in section 3.6: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to be aware of these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.

5. **Dates and times of class exercises held outside of class hours:** The **common midterm test** for all four lecture sections will be on Thursday evening, **October 25, 7:00 pm – 8:30 p.m.** rooms TBA.

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **TEXTBOOK: "University Physics", 13<sup>th</sup> Edition, Volume II, by Young and Freedman**, Addison-Wesley (Note that this was the text used in Physics 259 for first-year Engineering students at U of C in Winter. 2012. You will need Chapters 14, 15, 16 also; these should be bundled as a special U of C Supplement with the Volume II as sold in the U of C bookstore.) **NOTE:** As an extension to the textbook, an extensive set of Extra Notes to supplement is posted on Blackboard for students to download.

7. **EXAMINATION POLICY:** The midterm and final examinations in Physics 369 are closed book exams, although a formula sheet will be provided with the question paper. You are required to use the Schulich School of Engineering approved calculator in these examinations. Students should also read the Calendar, Section G, on Examinations: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.

Department Approval \_\_\_\_\_

Date \_\_\_\_\_

Associate Dean's Approval for  
out of regular class-time activity: \_\_\_\_\_

Date: \_\_\_\_\_

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**8. OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- (a) **ACADEMIC MISCONDUCT** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) to inform yourself of definitions, processes and penalties
- (b) **ASSEMBLY POINTS** in case of emergency during class time. Be sure to **FAMILIARIZE YOURSELF** with the information at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.
- (c) **ACADEMIC ACCOMMODATION POLICY.** Students with documentable disabilities are referred to the following links:  
 Calendar entry on students with disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html>  
 Disability Resource Centre: <http://www.ucalgary.ca/drc/>
- (d) **SAFEWALK:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **FREEDOM OF INFORMATION AND PRIVACY:** This course will be conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). As one consequence, **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 also <http://www.ucalgary.ca/legalservices/foip/>
- (f) **STUDENT UNION INFORMATION:** VP Academic Phone: 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca).  
 SU Faculty Rep. Phone: 220-3913 Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca) Website <http://www.su.ucalgary.ca/home/>.  
 Student Ombudsman: <http://www.ucalgary.ca/provost/students/ombuds>
- (g) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information.** You can assume that in all classes that you attend, **your cell phone should be turned off.** Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor (**Phys 369 students: only allowed for Top Hat Monocle sessions in class**). If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.

**BE SURE TO DOWNLOAD the Phys 369 ADDITIONAL COURSE INFORMATION DOCUMENT** from Blackboard. (Contains more info on LABS, ASSIGNMENTS, etc. and the detailed lecture-by-lecture COURSE OUTLINE and SCHEDULE.)

**FAQs (Frequently asked questions) about Physics 369:**

- Where do I get the textbook?** Most students will have taken Phys 259 and will already have the textbook for the course, which is Part II (plus chapters 14, 15, 16, 17) of Young and Freedman, University Physics, 13 ed. If you don't have the text, it is sold in the U of C Bookstore. There are also Extra Notes to supplement the text (see point 3 below).
- What do we cover in this course?** See **Detailed Course Outline**, pp. 4-6 of Additional Course Information Document posted on Blackboard.
- Where do I get the Supplementary Notes?** Download them in small chunks from the course BLACKBOARD site (free). These 275 pages of notes deal with material included in the course but not covered in sufficient depth in the textbook.
- When do labs start?** Week of Monday, Sep 17 for even-numbered lab sections (This is in the second week of lectures in the course.) Week of Monday Sep 24 for odd-numbered sections. See detailed **LAB SCHEDULE** in the **Phys 369 additional course information on BLACKBOARD**.
- Where do I get my lab manual?** On the Department's Lab website [www.pjl.ucalgary.ca](http://www.pjl.ucalgary.ca). Manuals should be posted some time in the first two weeks of Sept. Each student should download his/her own copy of the Lab Manual. **Before you come to your first lab session** make sure you have read the relevant sections of the Manual (pp. 1-16) and completed any Preliminary Work for the Concave Mirror Lab.
- Where do I do assignment 1?** On the MsteringPhysics.com website. (See Additional Course Info.)
- Where do I hand in my Labs?** In Lab TA drop boxes in the Physics Junior Labs area in Science Theatres basement (opposite ST 042). (See Additional Course Info.)
- Where will my group's marked Lab Report be returned?** At the next meeting of your lab section.
- Where can I check my term work grades?** You can get there by clicking on the [Phys 369 marks](http://webapps3.ucalgary.ca/~dppvan/phys369/grades/fall/index.php) link in Blackboard: <http://webapps3.ucalgary.ca/~dppvan/phys369/grades/fall/index.php>.
- My instructor said he posted his lecture notes...where is that?** Each instructor has a folder in the Course Documents area of Blackboard for his own posts.
- Who do I call if something is wrong with my grades, or I have any other problem with the course?**  
 For an incorrectly entered lab grade, talk to your own lab TA at your next scheduled lab.  
 For all other enquiries, send e-mail to the course coordinator at [hicks@ucalgary.ca](mailto:hicks@ucalgary.ca). **IMPORTANT:** include the **course number** (P369), your **name and ID number** in the subject line. Keep messages brief and to the point.