

UNIVERSITY OF CALGARY
DEPARTMENT OF PHYSICS and ASTRONOMY
COURSE OUTLINE

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

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| L01: TuTh, 11:00-12:15, ST 148* | Instructor, Dr. J.K. Biel | Office SB 642 | Tel. 220-8769 | biel@ucalgary.ca |
| L02: TuTh, 11:00-12:15, ST 148* | Instructor, Dr. J.K. Biel | Office SB 642 | Tel. 220-8769 | biel@ucalgary.ca |
| L03: TuTh, 12:30-13:45, ENE 243 | Instructor, Dr. A. Louro | Office SB 603 | Tel. 220-8648 | louro@ucalgary.ca |
| L04: TuTh, 12:30-13:45, ST 135 | Instructor, Dr. J.K. Biel | Office SB 642 | Tel. 220-8769 | biel@ucalgary.ca |

*L01 and L02 are combined in same room

Phys 369 Course coordinator: Dr. R.B. Hicks Office SB 634 Tel. 220-3443 P369coord@phas.ucalgary.ca

OFFICE HOURS: Dr. Biel MW 1100-1400 Dr. Louro: drop in or by appointment Dr. Hicks: By appointment 220-3443

Course BLACKBOARD site (all lecture sections) **PHYS 369 ALL - (Fall 2010) – Acoustics, Optics, Radiation**

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:

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| Clickers | 2% |
| Assignments (8) | 18% |
| Laboratory experiments (6) | 20% |
| Common Midterm test | 20% (Thu Oct. 21, evening, 6:45–8:15 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 will be published on the Phys 369 Blackboard site later in the term.

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 familiarize himself/herself with 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 21, 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*", 12th 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. You will need Chapters 13, 15, 16 also; these should be bundled with the Volume II as sold in the U of C bookstore.) **NOTE:** An extensive set of Extra Notes to supplement the textbook 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 _____

Sept 20, 2010

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

Date: _____

Sept 22, 2010

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 (FOIPP). 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/secretariat/privacy>.
- (f) **STUDENT UNION INFORMATION:** VP Academic Phone: 220-3911 Email: suvpaca@ucalgary.ca.
SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca
Website <http://www.su.ucalgary.ca/home/contact.html>.
Student Ombudsman: <http://www.su.ucalgary.ca/services/student-services/student-rights.html>
- (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. 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 on Blackboard. (Contains more info on LABS, ASSIGNMENTS, etc. plus a 3-page detailed lecture-by-lecture COURSE OUTLINE and SCHEDULE.)

FAQs (Frequently asked questions):

1. **Where do I get the textbook?** Most students will have taken Phys 259 and will already have the text book for the course, which is Part II (plus chapters 13, 15, 16, 17) of Young and Freedman, University Physics. 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).
2. **What do we cover in this course?** See **Detailed Course Outline**, pp. 4-6 of Additional Course Information Document posted on Blackboard.
3. **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.
4. **When do labs start?** Week of Monday, Sep 20 for even-numbered lab sections (This is in the second week of lectures in the course.) Week of Monday Sep 27 for odd-numbered sections. See detailed **LAB SCHEDULE** in the **Phys 369 additional course information on BLACKBOARD.**
5. **Where do I get my lab manual?** ESS will be selling them starting Monday, Sep 13. (\$6.00) Get your Lab Manual early and PREPARE for the first lab by reading pages 1-16 well in advance. You also need two hardbound lab notebooks for the term.
6. **Where do I get assignment 1?** After Sep 17, download it from Course Documents/Assignments area on BLACKBOARD.
7. **Where do I hand in my Labs and Assignments?** In Lab TA drop boxes in the Physics Junior Labs area in Science Theatres basement (opposite ST 042). Due dates are discussed in the **Phys 369 additional course information on BLACKBOARD.**
8. **Where do I pick up my marked Labs and Assignments?** At the next meeting of your lab section.
9. **Where can I check my term work grades?** At <http://webapps3.ucalgary.ca/~dppvan/phys369/grades/fall/index.php>. (You can get there by clicking on the **Phys 369 marks** link in Blackboard.
10. **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.
11. **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 P369coord@phas.ucalgary.ca. **IMPORTANT:** include the course number, your name and ID number in the subject line. Keep messages brief and to the point.