

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

**1. Course: PHYSICS 211/221, Mechanics**

**Lecture/Time/Session(s):** L01: MW 12:00 - 14:45 pm, MFH 160 Spring 2015  
F 14:30 - 16:20 pm, MFH 160

**Instructor and Course Coordinator:**

Dr. J. K. Biel Consultation Hours: Monday/Wednesday 3:00-3:45 PM in SB 503.  
E-mail: [biel@ucalgary.ca](mailto:biel@ucalgary.ca) Phone #: (403) 210-7904 or (403) 239-7077

**D2I courses:** Phys 211 L01 – (Spring 2015) - Mechanics  
Phys 221 L01 – (Spring 2015) - Mechanics

**Physics and Astronomy Office:** SB 605, **Tel. No.:** 220-5385

- 2. Phys 211 Pre-requisite:** Mathematics 30-1 or Pure Mathematics 30 or Mathematics II (offered by Continuing Education). Note: Physics 30 is recommended as preparation for Physics 211. Credit for both Physics 211 and either of 221 or 227 will not be allowed. Not open to students who meet ALL of the following criteria: 70 per cent or higher in Physics 30, 70 per cent or higher in Mathematics 30-1 or Pure Mathematics 30 and 60 per cent or higher in Mathematics 31, except with special Departmental permission.  
<https://www.ucalgary.ca/pubs/calendar/current/physics.html#6026>

**Phys 221 Pre-requisite:** A grade of 70 per cent or higher in Physics 30; 50 per cent or higher in Mathematics 31; and 70 per cent or higher in Mathematics 30-1 or Pure Mathematics 30 or a grade of "B-" or 70 per cent or better in Mathematics II (offered by Continuing Education).

- 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:

Labatorials (9)		15.0%
Assignments (6)		15.0%
Midterm Test (100 min)		30.0% (Friday, June 05 during class)
Final Exam (150 min))		40.0% (To be scheduled by the Registrar)
Bonuses:		
Top Hat Monocle		2.0%
Diagnostic tests		1.0%

Students who receive a weighted mean mark less than 40% over the two term tests and the Final Examination should not expect to receive a course grade higher than "D+".

Percentage grades will be given for all components of term work and examinations. 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 has been included in Additional Course Information.

- 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. It is the student's responsibility to familiarize himself/herself with these regulations. See also Section E.6 of the University Calendar
- 5. Textbook:** "Physics for Scientists and Engineers: A Strategic Approach", by Randall D. Knight, 3<sup>rd</sup> Ed., Addison Wesley.
- 6. Examination Policy:** Examinations are closed book. Calculators must not have wireless communication. Students are encouraged to read the calendar, Section G, on Examination: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.
- 7.** The percentage marks that appear on the d2l website are the marks that will be used to determine each student's overall course grade. Overall Physics 211/221 percentages are converted into a final course letter grade using the following thresholds:

92% - 100%	A+;	85% - 92%	A	80% - 85%	A-	75% - 80%	B+	70% - 75%	B
65% - 70%	B-	60% - 65%	C+	55% - 60%	C	50% - 55%	C-	45% - 50%	D+
40% - 45%	D	35% - 40%	D-	00% - 35%	F				

8. **Human Studies:** The Department of Physics and Astronomy is conducting research into the effectiveness of our teaching. This research includes evaluating student performance and improvement in Phys 211/221; see the information page "Evaluation of Learning Outcomes in Physics 211/221" on Blackboard. See also: <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.

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

Date \_\_\_\_\_

9. **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>  
<http://www.ucalgary.ca/pubs/calendar/current/k-2.html> <http://www.ucalgary.ca/pubs/calendar/current/k-2-5.html>
- (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. Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **FOIP:** 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/secretariat/privacy>.
- (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/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 cases 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 change of misconduct.

JKB/HW

May 01, 2015