



**Missed assignments:**

Please contact your instructor if you have a legitimate reason for missing a deadline for an assignment. Sleeping in, forgetting about the deadline etc. is NOT considered a legitimate reason.

5. **Scheduled out-of-class activities:** None
6. **Course Materials:** *R.D. Knight, Physics for Scientists and Engineers: A Strategic Approach, 3rd Edition, Addison-Wesley.*
7. **Examination Policy:** Closed book exam and mid-term test with formula sheet provided; calculator allowed; Students should also read the Calendar, Section G, on Examinations.
8. **Approved Mandatory and Optional Course Supplemental Fees:** None
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 Section K. Student Misconduct 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 on assembly points.
  - (c) **Academic Accommodation Policy:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at [http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities\\_0.pdf](http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf). Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of the Department of Physics and Astronomy, Dr. David Feder, by email ([dfeder@ucalgary.ca](mailto:dfeder@ucalgary.ca)) or by phone (403.220.3638).
  - (c) **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.
  - (d) **Freedom of Information and Privacy:** This course is 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>.
  - (e) **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); Student Ombudsman
  - (f) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. 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.
  - (g) **USRI:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

## 10. OTHER COURSE RELATED INFORMATION:

### (a) Course Learning Outcomes

Mechanics is the study of motion; by the end of this course, students should be able to:

- Explain how interactions between systems affect motion
- Discuss fundamental and emergent interactions

Students will also start developing systems thinking by being able to:

- Make mathematical predications about collisions using the momentum principle
- Calculate behavior of systems using the energy principle

The course also contributes to teach students to:

- Apply mathematical techniques including vectors, derivatives, and integrals to simple physical problems.

### (b) Spring 2017 Schedule

Week	Lecture Dates	Textbook Material	Assignments	Labatorials
1	M May 15	Ch. 1: Concepts of Motion Ch. 2: Kinematics in One Dimension Ch. 3: Vectors and Coordinate Systems	Assignment 1 due: F May 19 11:59pm	Labatorial 1: Units, Equipment Introduction and Motion Diagrams (R)
	W May 17			
	F May 19			
<i>Victoria Day: Monday, May 22</i>				
2	W May 24	Ch. 4: Kinematics in Two Dimensions ( <i>excluding Section 4.4</i> )	Assignment 2 due: F May 26 11:59pm	Labatorial 2: Measuring Motion (T) Labatorial 3: Motion on the Inclined Plane (R)
	F May 26	Ch. 5: Force and Motion		
3	M May 29	Ch. 5: Force and Motion Ch. 6: Dynamics I: Motion Along a Line	Assignment 3 due: F June 2 11:59pm	Labatorial 4: Two Dimensional Motion (T) Labatorial 5: Statics (Newton's First Law in Two Dimensions) (R)
	W May 31			
	F June 2			
4	M June 5	Ch. 7: Newton's Third Law	Assignment 4 due: F June 9 11:59pm	Drop-in tutorials (T) Labatorial 6: Newton's Second Law (R)
	W June 7			
	F June 9	<b>Midterm test (in class)</b>		
5	M June 12	Ch. 8: Dynamics II: Motion in a Plane Ch. 9: Impulse and Momentum	Assignment 5 due: F June 16 11:59pm	Labatorial 7: Newton's Third Law (T) Labatorial 8: Collisions in One Dimension (R)
	W June 14			
	F June 16			
6	M June 19	Ch. 10: Energy	Assignment 6 due: F June 23 11:59pm	Labatorial 9: Simple Harmonic Oscillation and Conservation of Energy (T) Make-up labatorials (R)
	W June 21	Ch. 11: Work ( <i>excluding Section 11.6</i> )		

	F	June 23			
7	M	June 26	Ch. 12: Rotation of a Rigid Body ( <i>only Sections 12.5, Torque &amp; 12.8, Static Equilibrium</i> )		Drop-in tutorials ( <i>T</i> )

*Final Exam Period: Wed, June 28 – Friday, June 30*