

PHY111 – MECHANICS

3 credits

Prerequisite(s): Pure Math 30 (Physics 30 is recommended).

Class Information		Instructor Information		First day of classes:	Wed., Sept 7, 2016
Days:	Tuesday and Thursday	Instructor:	Dr. Mehdi (Nader) Dehghany	Last day to add/drop, or change to audit:	Sun, Sept. 18, 2016
Time:	8:15 – 9:30 am	Email:	Mehdi.dehghany@ambrose.edu	Last day to request revised exam:	Mon, Oct 24, 2016
Room:	A2131	Phone:	403-410-2000 ext:6930	Last day to withdraw from course:	Mon, Nov 14, 2016
Tutorial	9:45 – 11:00 am Room: A2141	Office:	L2078	Last day to apply for time extension for coursework:	Mon, Nov 21, 2016
Final Exam: Wednesday December 21 @ 1:00 pm room A2133		Office Hour^(*):	Thursday 9:30 – 10:00 am Friday 12:00 – 12:30 pm ^(**)	Last day of classes:	Mon, Dec 12, 2016

(*) you must notify me by e-mail one day prior if you are planning to come by during my office hours.

(**) If neither of these office hours works with your schedule, I would be happy to meet with you in other times, only on Thursday and Friday mornings. Please request appointment one day prior.

Textbook: Physics for scientists and Engineers, a strategic approach, 4th Edition customized for Ambrose University. By Randall D. Knight. (Available at the bookstore)

Course Description:

This course teaches concepts in motion and kinematics, forces and acceleration, energy, momentum, and torque. There is a lab component for this course.

Expected Learning Outcomes:

Both conceptual understanding and problem solving skills will be emphasized. Calculus will not be used, but extensive use will be made of algebra and trigonometry. There is a lab/tutorial component for this course that provides further insight into these topics.

The key to success in physics is understanding. Understanding is developed by reading required textbook, participating in class and discussions. If you are having trouble with something in particular, don't hesitate to ask question. If you are not in class both physically and mentally, you are missing out on your learning. Please be aware that you are responsible for your own progress. Physics is not a spectator sport; it is something that must be actively learned.

Course Schedule:

This is a tentative schedule for timing of the topics in this course.

Chapter 1 and 2 -----(Except sections 6 and 7 of chapter two)-----	Sep. 12 th – 26 th
Chapter 3 and 4 -----(Except sections 1, 3, 4, 5, 6 of chapter four)-----	Sep. 28 th – Oct. 18 th
Midterm Exam One -----	Friday, October 21 st
Chapter 5, 6, 7 and 8-----	Oct. 24 th – Nov. 08 th
Chapter 12 -----	Nov. 14 th – 18 th
Midterm Exam Two -----	Friday, November 25 th
Chapter 9 and 10 -----	Nov. 21 st – Dec. 02 nd
Chapter 11 -----	Dec. 05 th – Dec. 09 th

Requirements and course assessments:

Online Assignments-----	10%
Tutorials-----	15%
Midterm Exam One (Friday, October 21 st – 75 minutes)-----	17.5%
Midterm Exam Two (Friday, November 25 th – 75 minutes)-----	17.5%
Final Exam (December 21st 1:00 pm room A2133 – 3 hours)-----	40%

Online Assignments: Questions are posted on the course website on Monday night. Students will have time to work on them until the following Saturday. The due date for these online assignments is always **11:59 pm Saturday. Absolutely no make up for missed online assignments.**

Tutorials: Four questions/problems are assigned to tackle during each tutorial session. Your solutions will be collected at the end, marked and returned back to you. This could be done **individually or in group of two**. Solutions are expected to be neat and organized, easy to follow with clear diagrams and final answers. 10% of each assignment mark will be devoted to neatness and organized write ups (discretion of your TA). **Absolutely no make up for missed tutorials.**

Midterm Exams: 50% mark of the midterm exams will be straight from the examples in chapters and end of the chapter questions/problems. Thus, it is strongly recommended to read the text book and practice questions at the end of each chapter on a regular plan. **Midterm exams are not cumulative.** Date of the midterm exams are fixed, unless otherwise is announced beforehand which might be possible based on the course pace.

Final Exam: The final exam will be scheduled by the Registrar's Office and will be announced later. **It will be a cumulative exam**, covering all the topics discussed in lectures. Deferred exams will only be granted once full documentation (see the current Ambrose University Calendar) has been received and verified by your instructor and the Department. Students must ensure they are available for the final exam. Vacations, flights, employment, etc. are not valid reasons to request a deferred examination.

Attendance:

Class participation is very important to your learning in this course. Students who do not attend class may lose the opportunity to engage in class discussions and more likely to fall behind the class. Questions in the exams might also be related to class discussions which will be missed upon absence. **No attendance is recorded in lectures or tutorials.**

Grade Summary:

Grading Scheme

A+	95-100%		C+	67-69%	
A	90-94%	Excellent	C	63-66%	Satisfactory
A-	85-89%		C-	60-62%	
B+	80-84%		D+	54-59%	Minimal Pass
B	76-79%	Good	D	50-53%	
B-	70-75%		F	Below 50%	Failure

Other

All types of calculators can be used in this course, but a simple one that includes basic mathematical functions (addition, subtraction, multiplication, division, trigonometric functions, square root) will suffice. Using cell phone, laptop or ipad during examinations is not permitted even if only used as a calculator.

Policies:

Communication

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, they will need to forward all messages from the Ambrose account to another personal account.

Registration

During the **Registration Revision Period** students may enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty or record. Courses should be added or dropped on the student portal by the deadline date; please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a "Request to Withdraw from a Course" form or by sending an email to the Registrar's Office by the **Withdrawal Deadline**; please consult the List of Important Dates on the my.ambrose.edu website. Students will not receive a tuition refund for courses from which they withdraw after the Registration Revision period. A grade of "W" will appear on their transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade

earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

Exam Scheduling

Students, who find a conflict in their exam schedule must submit a Revised Examination Request form to the Registrar's Office by the deadline date; please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) the student has three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to use electronics for purposes unrelated to the course during a class session. Turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. Some professors will not allow the use of any electronic devices in class. The professor has the

right to disallow the student to use a laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. Personal information (information about an individual that may be used to identify that individual) may be required as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a course Extension from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the deadline date; please consult the List of Important Dates. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Registrar's Office in writing and providing the basis for appeal within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal. If the appeal is sustained, the fee will be refunded.

Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism

involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to acknowledge to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

Note: Students are strongly advised to retain this syllabus for their records.