

# ASEN 2003 Spring 2019 Syllabus

## INTRODUCTION TO DYNAMICS AND SYSTEMS

Lecture: Tuesday and Thursday 11:00 AM - 12:15 PM CHEM 140

### Lab:

- Section 011 MW 1:00-2:40 PM (ITLL 1B10)
- Section 012 MW 3:00-4:40 PM (ITLL 2B10)
- Section 013 TTh 2:00-3:40 PM (ITLL 2B10)

Final: Monday May 6 from 4:30 PM to 7:00 PM

**TA OFFICE HOURS: Monday**

Class Website: <http://canvas.colorado.edu>

### Instructors

Professor Penina Axelrad

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Professor Eric Frew

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### Lab Instructor:

Bobby Hodgkinson

Office: ECAE 1B44 /Email: Robert Hodgkinson <[hodgkinr@colorado.edu](mailto:hodgkinr@colorado.edu)>

### Teaching & Class Assistants:

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### Textbook

Required: *Engineering Mechanics: Dynamics*, by Bedford and Fowler, Fifth Edition, 2008.  
ISBN VP ISBN-10: 0132971135

### Overview

The study of dynamics is a key component of every undergraduate engineering major, but



individual mastery of the subject. In class group problem solving and labs will allow for considerable collaborative problem solving.

**Clickers** – We will use Clickers in this course during lecture periods. There are two main reasons we use Clickers: first, extensive research has shown that the use of Clicker questions during

## Logistics

1. TA/CA Office Locations and Office Hours will be arranged and announced as soon as possible.
2. We reserve the right to reply to email questions only in business hours, i.e. Monday through Friday, 8:00 am – 5:00 pm. Emails received 24 hours or less before the exams are not guaranteed a response. To better help us manage and track your emails please include **ASEN2003** at the beginning of the subject line.
3. Attendance to lecture is expected. Attendance at laboratory sessions is mandatory. In-class assignments may be given at any time and students are expected to come to class prepared to participate.
4. Homework assignments are due at the start of class on the due date. Each assignment must be scanned and uploaded to Canvas in a single pdf titled as follows: *HW##\_Lastname\_Firstname*  
For example, my submission for the first homework would be named: *HW01\_Axelrad\_Penina*  
More details on homework submission are provided later in this document.
5. Exams & Comprehensive Final - Exams will be given during the class periods. Any type of collaboration or copying on a reading quiz, exam, or final constitutes cheating and will result in an F for the course. An honor code violation or accusation report will be filed. Make-up exams are only given by the instructors when necessitated by extenuating circumstances such as a serious medical condition or emergency. If such a situation arises, contact the instructor by email or on their office phone number as soon as possible.
6. Lab Reports - Experimental and design lab exercises are conducted and submitted together with your team. Contributions of each team member will be identified for each exercise. Collaborations with other teams, including shared diagrams or extensive discussion of results must be acknowledged. A grading rubric is provided with each lab.
7. Deadlines - Late assignments are not accepted except under extenuating circumstances such as a school closure or sudden illness. If such an event occurs you are expected to contact the instructor immediately by phone or email. A hectic schedule or crashed computer is not an acceptable reason for a late lab submission. If you know in advance that you will not be on campus for a due date, you may submit your assignment to Canvas any time prior to the due date.
8. Grading - Grades on individual assignments and for the overall course are set based on the following criteria.  
**Grades do not correspond to pre-specified ranges of scores.**  
A, A- Demonstrates superior understanding of the material beyond the course requirements, excellent  
A, T2 of

9. Safety is the number one priority for laboratory activities. If you have not already done so, you are required to attend an orientation and safety lecture presented both by ITLL and by course staff during the first week of the semester. Anyone violating rules of safe conduct may receive a zero for the laboratory. Byg f mzerden 1371001

## Homework Rules & Logistics

### Posting & Submission

- Homework will be posted on Canvas including the due date & time.
- Solutions will also be posted on Canvas when the assignment grades are returned. 29
- Homework assignments are due at the start of class on the

## Grading

Type	Description	Percentage
Individual Grade	Unit Exams (4)	60%
	Final Exam	30%
	Participation, including in class quizzes	10%
	Individual Total	100%
Group Grade	Labs	80%
	Homework	20%
	Group Total	100%
Final Grade	If individual grade $\geq$ C *	Final = $0.6 \times \text{Individual} + 0.4 \times \text{Group}$
	If individual grade $<$ C	Final = Individual

*\*The cutoff for individual grades will not be higher than 70%.*

## Grading Philosophy

Assignments are graded to an absolute standard designed to indicate your level of competency in the course material. Minor adjustments may be made in the assignment of final grades, but there is a limited amount of “curving” in the course. The final grade indicates your readiness to continue to the next level in the curriculum. The AES faculty have set these standards based on our education, experience, interactions with industry, government laboratories, others in academe, and according to the criteria established by the ABET accreditation board.

The course grade is primarily dependent on individual measures of competency, i.e. exams and quizzes. The other course assignments are designed to enrich the learning experience and to enhance individual performance, not to substitute for sub-standard individual competency. Accordingly, group assignment grades are only incorporated into the final grade when the individual grade is a C or better. In other words, if your individual average is below a C, the group-based grade fraction will not be averaged in to your final grade, which will then be based solely on your individual score. This policy makes it important to use the group assignments to enhance your own learning. If the work in the assignment is split up among group members, be sure that the learning is not also split up, but is shared among the whole group. Homework is included in the group grade because collaboration is encouraged; it does not mean that copying is permitted on homework.

# Aerospace Engineering Sciences & University Policies 2019

## Accommodation For Disabilities

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely

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