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:
ASEN 1320 or CHEN 1310 or CSCI 1300 or 1310 or 1320 or ECEN 1310

:
ASEN 2012 & ASEN 2701 and ASEN 2702

A way to submit work as a PDF. Recommended software: MATLAB.
Recommended: Safety glasses/goggles for lab activities.

Introduce the fundamental concepts, principles, and analytical tools of aerospace engineering, and reinforce concepts in ASEN 2701 and ASEN 2702 through a variety

of experiential learning activities. This laboratory course provides a basic introduction to: Model-based design for real-world aerospace engineering systems, experimental data collection, and interpretation of experimental data using theoretical principles and analysis. The above topics are explored in the context of statics, structural mechanics, aerodynamics, and thermodynamics. A student who successfully completes this course will have a level of competency in the topics above so they can use this expertise in the design of operational aircraft and spacecraft.

Group Work:	Lab Assignments* (2 assignments)	40% (20% each)
	Weekly group deliverables	10%
Individual Work:	Individual Assessments	30% (15% each)
	Peer Engagement & weekly timesheets	20%
		100%

*Individual grades for lab assignments may be adjusted by instructor(s) based on peer evaluations. Exemplary peer evaluations may result in an increased individual lab assignment grade whereas poor peer evaluations will result in a lower assigned grade. Individuals whose name does not appear on a group submission will not receive credit for the assignment. Groups are encouraged to leave off the names of individuals who did not contribute to the lab assignment.

AES department policy: group work grade only counts towards final grade if the total individual grade is C or better.

Grading Philosophy: Your letter grades will be assigned based on expectations of performance. A letter grade of 'A' represents superior/excellent performance, a grade of 'B' represents good/better than average performance, while a grade of 'C' represents competent/average performance (which is in accordance with CU grading policy). Typically, a performance of 70% would earn you a grade of 'C', however, we reserve the right to normalize the class grades based on the expected minimum level of competency.

2 (two) Lab Assignments: The submission of lab assignments will be a combination of short answer responses, condensed lab reports, and/or presentations. Details will be provided during the lab experience.

2 (two) Individual Assessments: The individual assessments will focus on the primary learning objectives of the associated lab assignments. These assessments are to be completed independently even though you may use previously completed work.

See the course schedule for important dates related to lab assignment submissions and assessments.

1. We reserve the right to make changes to the weekly course schedule based on occurring events that require different dispositions. We will give sufficient advance notice through announcements in class and posting on the website. Changes to this syllabus and schedule may be announced at any time during class periods. We will post the current syllabus and schedule on the course website.
2. The primary means for general course announcements will be via course-wide Canvas announcement. Please ensure you have enabled notifications. Informal questions and discussions will be handled via the course Slack site: . Instructors, TFs, and LAs will all monitor Slack for questions. Private student questions or coordination can be handled via direct Slack message to the instructors. If we receive an email regarding one of these topics we will refer you to the Slack discussion board. Emails to the instructor should occur if you experience a medical/family emergency, or if you are struggling in the course and need to discuss success strategies. Emails will be responded to during business hours, i.e. Monday through Friday, 8:00 am – 5:00 pm.
3. Please note in case of a medical/family emergency, you should contact the office of Student Support and Case Management here: <<https://www.colorado.edu/studentaffairs/sscm>>. They will help you coordinate across ALL of your courses and can put you in touch with a number of campus resources.
4. We reserve the right to make changes to the weekly course schedule based on occurring events that require different dispositions. We will give sufficient advance notice through announcements in class and posting on the web. Changes to this syllabus and assignments-table may be announced at any time during class periods. We will post the current syllabus and assignments-table on the web.
5. Experimental lab reports should be completed using a digital word processing program (Word, LaTeX, PDF, etc). All group member names with relevant assignment information must appear on the cover page. Bottom line - submit all work with a professional appearance. Neatness, clarity, and completeness really do count in the work world! Detailed guidelines for laboratory reports and presentations will be distributed and reviewed separately. Labs are written up and presented in groups, and initially graded as a group effort. Final individual grades for each lab assignment, however, will reflect an anonymous peer evaluation of the group members and professor assessment. The peer assessment is a multiplying factor that , an ans for t isly gra and nd gn ,t\$ AMM

The Department of Aerospace Engineering Sciences has adopted a policy of assigning grades according to “evaluated outcomes” in each course:

O1 Professional context and expectations (ethics, economics, etc.)

From:

<https://www.colorado.edu/academicaffairs/policies-customs-guidelines/required-syllabus-statements>

Classroom Behavior

Both students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote or online. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especial

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu for further assistance. If you have a temporary medical condition, see [Temporary Medical Conditions](#) on the Disability Services website.

Preferred Student Names and Pronouns

CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the [Honor Code](#). Violations of the Honor Code may include, but are not limited to: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to Student Conduct & Conflict Resolution (honor@colorado.edu); 303-492-5550). Students found responsible for violating the [Honor Code](#) will be assigned resolution outcomes from the Student Conduct & Conflict Resolution as well as be subject to academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found on the [Honor](#)

that individuals impacted receive information about their rights, support res