

**ASEN 4013 -- Foundations of Propulsion – Sp 2022 – TuTh 11:30 am to 12:45 pm – Aero 120**

**Instructor:** Prof. Timothy K. Mindes ~~606-814-7204 (H) 216-333-4122 (T) 4.9023 (N) 2 (2/T~~



**Grading:**

20% Problem Sets (8) – Some may be combined

20% Exam 1 (75 min) – During regular lecture time

20% Exam 2 (75 min) – During regular lecture time

40% Exam 3 (2½ hrs) – During scheduled Final Exam time (not comprehensive)

Grades will be assigned to indicate a student's level of competency in the course material. Accordingly, adjustments may be made in the assignment of final grades to reflect students' performance with respect to the current and historical average of the class. It is anticipated that the average grade (regardless of the absolute score) will be approximately a B-. The final grade indicates your achievement in the course according to AES Department standards based on experience, interactions with industry, government laboratories, others in academia, and according to the criteria established by the ABET accreditation board.

**Problem Sets:**

The purpose of the problem sets is to aid the student in learning by working on problems related to the course material.

An equivalent of eight problem sets of equal weights will be assigned. Sometimes, two problem sets may be combined, making the combined problem set double the weight of a single problem set.

Students must scan (or photograph) their problem sets and submit them through Canvas by 5:00 pm on their due dates. **Late problem sets will not be accepted – no exceptions.** It is expected that students will upload their problem sets with sufficient time to overcome any problems with the upload. Furthermore, it is expected that students will verify that their problem sets have been successfully uploaded. Insufficiently legible work will not

- Please don't screenshot your code from the user interface and don't submit the source code file. You must copy and paste the code into your submission. We must be able to run your code in order to properly assign points. Do not wait until the last hour to submit a problem set involving the use of a computer code. After you submit, make sure the code you've included is able to b( c)4 a 0 Td( )Tj/TT0its 0078/TTO 1 Tf1 1odKn or-2 (i)-2 (t) het ithe so s3 (e)-6( you'

If in-person classroom instruction is not in effect during a scheduled exam time, then the exam shall be taken remotely, and instructions will be given if this becomes relevant. These instructions will supersede the exam policy above.

**Evaluated Outcomes:**

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, business environment, etc.)
- O2** Current and historical perspective
- O3** Multidisciplinary, systems perspective
- O4** Written, oral, graphical communication ability
- O5** Knowledge of key scientific/engineering concepts
- O6** Ability to define and conduct experiments, use instrumentation
- O7** Ability to learn independently, find information
- O8** Ability to work in teams
- O9** Ability to design
- O10** Ability to formulate and solve problems
- O11** Ability to use and program computers

Evaluation of these outcomes allows an assessment of the student’s performance and provides a major portion of the process that the faculty use for continuous assessment and improvement of the entire AES curriculum. . tj4.6

students who do not leave class when asked or who refuse to comply with these requirements will be referred to [Student Conduct and Conflict Resolution](#). For more information, students are referred to the policy on [classroom behavior](#) and the [Student Code of Conduct](#). If you require accommodation because a disability prevents you from fulfilling these safety measures, please follow the steps in the “Accommodation for Disabilities” statement in this syllabus.

CU Boulder currently requires masks in classrooms and laboratories regardless of vaccination status. This requirement is a precaution to supplement CU Boulder’s COVID-19 vaccine requirement. Exemptions include individuals who cannot medically tolerate a face covering, as well as those who are hearing-impaired or otherwise disabled or who are communicating with someone who is hearing-impaired or otherwise disabled and where the ability to see the mouth is essential to communication. If you qualify for a mask-related accommodation, please follow the steps in the “Accommodation for Disabilities” statement on this syllabus. In addition, vaccinated instructional faculty who are engaged in an indoor instructional activity and are separated by at least 6 feet from the nearest person are exempt from wearing masks if they so choose.

Students who have tested positive for COVID-19, have symptoms of COVID-19, or have had close contact with someone who has tested positive for or had symptoms of COVID-19 must isolate and follow the guidance of the [Public Health Office](#). In this class, a student who is sick or quarantined should obtain lectures and other course materials on Canvas and contact the instructor to discuss any potential need for special consideration on an exam. There will be no special consideration for problem sets. If a student has been sick or quarantined with COVID-19 during the course, then the instructor will take this into consideration when assigning the student’s final grade.

**Accommodation for Disabilities:**

If a student qualifies for accommodations because of a disability, the student must submit his/her accommodation letter from Disability Services to the instructor in a timely manner (**minimum of two weeks before class**) ~~( )~~ ~~1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19) 20) 21) 22) 23) 24) 25) 26) 27) 28) 29) 30) 31) 32) 33) 34) 35) 36) 37) 38) 39) 40) 41) 42) 43) 44) 45) 46) 47) 48) 49) 50) 51) 52) 53) 54) 55) 56) 57) 58) 59) 60) 61) 62) 63) 64) 65) 66) 67) 68) 69) 70) 71) 72) 73) 74) 75) 76) 77) 78) 79) 80) 81) 82) 83) 84) 85) 86) 87) 88) 89) 90) 91) 92) 93) 94) 95) 96) 97) 98) 99) 100)~~ (b)- ex(od)-4(od)-m(e) T0 Tc 7c 0 T4 -1.13 0 Td



**ASEN 4013 – SPRING 2022 SCHEDULE (subject to change with notification)**

**TUESDAY**