ASEN 5227 (Sections 001, 001B)
Aerospace Mathematics 1
Fall 2017

Time: Tue, Thurs, 03:30-4:45 **Location:** ECCR 150 **Website:** D2L ASEN 5227	**Instructor:** Mahmoud I. Hussein Associate Professor of Aerospace Engineering Sciences; H. Joseph Smead Faculty Fellow OFFICE: ECAE 194 Hours: Wed 3:00pm-5:00 pm E-MAIL: mih@colorado.edu Tel: 303-492-3177
	Teaching Assistant: Ashwin Yerasi Graduate Student Research Assistant OFFICE: ECAE 128 Hours: Tue 11:00am-12:00 pm Wed 11:00am-12:00 pm E-MAIL: ashwin.yerasi@colorado.edu

Description: Aerospace Math 1 provides an introduction to methods of advanced engineering analysis. The prime focus of the course is on elements of **vector and tensor analysis** as these form the basis for the theoretical development of advanced continuum mechanics (including fluid and solid mechanics) and other aerospace engineering topics such as dynamics and control. In addition, as a special topic, the course will cover **analysis of numerical ODE methods** with emphasis on concepts such as accuracy and stability. Depending on time, the topic of **calculus** [illegible]

Coursework	Grading
Exercise Sheets (bi-weekly)	N/A (not to be handed in)
Homework (bi-weekly)	15%
Exam 1	25%
Project	30%
Exam 2	30%

Notes

1. Homework assignments and solutions are posted on the class website. These assignments will be graded. If you must miss class for an excused absence, you may submit your homework early. Late homework will be subject to deductions in grade. If you know in advance that you must miss a homework due date, send your instructor an e-mail to make arrangements.
2. Exercise sheets and solutions will also be posted on the class website. These exercise problems are not to be handed in. However, they supplement the homework assignments in providing coverage of the course material and you are expected to complete these exercise sheets on a timely manner and prior to the exams.
3. The Project reports are due 5pm on the due date, or as indicated on the project assignment handout. If you have a late submission, 10% of the grade will be deducted. If you must miss class for an excused absence, you may submit early. Project assignments submitted after the next class session following the due date are not accepted as the project will be reviewed in that class session.
4. Exams will be take-home. **Collaboration on exams, using another student's work as your own, or allowing another student to use your work as their own is academic misconduct and is not tolerated.**
5. Always submit work with a professional appearance. Neatness, clarity, and completeness count.
6. Please see "**Statements on University Rules and Regulations**" page below for more information concerning university policies, rules and regulations.

Additional Information for Section 001B

The students of Section 001B will be talking the course remotely. Video screening and recordings will be available to these students through the BBA system. Students are encouraged to attend the classes via online connection during class; however this is not a requirement.

To join the class live, follow the instructions below:

Your Zoom meeting ID for your ASEN 5227 course (for the Fall 2017 semester): 324-759-344

Here is how to connect to your Zoom meeting ID:

- Join via web browser: https://cuboulder.zoom.us/j/324759344
- Join via Zoom app (using meeting ID)
- Join via phone: 1-646-558-8656 or 1-408-638-0968

Additionally, if you need help with getting Zoom up and running, please visit the following link:

http://www.colorado.edu/oit/services/conferencing-services/web-conferencing-zoom

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Statements on University Rules and Regulations:

If you qualify for accommodations because of a disability, please submit to your prt