

ASEN 4138

Fall Semester 2019

Class Times

Section Number

| <u>Lecture Sections:</u> | M & W 8:30am – 9:20am All lectures in AERO 114 | | (010) |
|--------------------------|---|------------|-------|
| Laboratory Sections | : Tu 10:30am – 12:20pm | AERO N 100 | (012) |
| | Th 10:30am – 12:20pm | AERO N 100 | (013) |
| | F 8:30am – 10:20am | AERO N 100 | (011) |

Prerequisites

• ASEN 3128, Aircraft Dynamics

<u>Textbook</u>

• Raymer, Daniel P., *Aircraft Design: A Conceptual Approach*, 6th Edition, AIAA Education Series, Reston, Virginia, 2018.

References

• See Canvas document - these books are available in the Engineering Library.

Instructor

- Dr. Donna Gerren (Dr. G)
- E-mail address: <u>donna.gerren@colorado.edu</u>
- Office: N 203
- Office phone: (303)735-4870
- Office hours: Tu & Th 1:30 3:30pm
 - F 11am noon

Also available during lab sessions or by appointment.

<u>Grading</u>

- Class is worth 1,000 points total
- Homework none
- Exams none
- Four written design reports each report worth 225 points (90% of class grade) peer evaluations by myself, your TA, and your design partner (combined) can affect up to +/- 5% of each of your report grades.
- Oral presentation at the end of the semester 100 points (10% of class grade). Again, peer evaluations by myself, your TA, and your design partner (combined) can affect up to +/- 5% of your presentation grade.
- Attendance for final class presentations is required: 5 points will be docked from your presentation grade for each day of presentation nonattendance unless excused. This <u>has</u> resulted in a reduced semester grade.
- **NOTE:** Some presentations will take place during this course's final exam time, Monday, December 16, 7:30 10:00pm.

General Comments

- Keep cell phones silent during class!
- The following are **tentative** due dates for each report:

Design Report 1 Monday, September 30 due at beginning of class Design Report 2: Wednesday, October 30 due at beginning of class Design Report 3: Friday, November 22 due at 5pm Design Report 4: Wednesday, December 17 due at noon

• Unexcused late reports WILL BE penalized 5 points for each late day.

• All reports must be prepared with a word processor and adhere to the design report requirements e-mail handout. All drawings must be done using a software program – no hand sketches. Points will be taken off unprofessional reports, even if the technical content is correct.

• ADVICE: Get started on your first report right away - September 30th will be here before you know it. Get started on the next report as soon as you've handed in the previous report. Keep a rough draft of the report just handed in as it takes a while to grade and return them to you – you may need some calculations or values from that report to continue work on your design. Back up your files regularly and have several backup or paper copies of your Advanced Aircraft Analysis (AAA) data.