



AIRCRAFT DESIGN



ASEN 4138

Fall Semester 2018

Class Times

Section Number

- Lecture Sections: M & W 9:00 am – 9:50 am (010)
All lectures in ECCS 1B12
- Laboratory Sections:

Tu 9:00 am – 10:50 am	ITLL 2B10	(013)
Tu 11:00 am – 12:50 pm	ITLL 2B10	(011)
Th 11:00 am – 12:50 pm	ITLL 2B10	(012)

Prerequisites

- ASEN 3128, Aircraft Dynamics

Textbook

- Raymer, Daniel P., *Aircraft Design: A Conceptual Approach, 5th Edition*, AIAA Education Series, Reston, Virginia, 2012.

References

- See D2L document - these books are available in the Engineering Library.

Instructor

- Dr. Donna Gerren (Dr. G)
- E-mail address: donna.gerren@colorado.edu
- Office: ECAE 198 (next to Onizuka Conference Room)
- Office phone: (303) 735-4870
- Office hours: M & W 1:00 pm – 3:30 pm (may be a few minutes late on Wednesdays)
Also available during lab sessions or by appointment.

Grading

- 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 +/- 10% 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 +/- 10% 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 has resulted in a reduced semester grade.
- **NOTE:** Some presentations will take place during this course's final exam time, Wednesday, December 19th, from 1:30 pm – 4:00 pm.

General Comments

- Keep cell phones silent during class!
- All design reports are due at 5:30 pm on their due dates. The following are **tentative** due dates for each report:

Design Report 1: Wednesday, September 26

Design Report 2: Wednesday, October 24

Design Report 3: Wednesday, November 14

Design Report 4: Friday, December 14

- 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 26th 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.**