AIRCRAFT DESIGN

ASEN 4138

Fall Semester 2017

Class Times

- **Lecture Sections:** M & W 9:00 am – 9:50 am
  All lectures in ITLL Active Learning Center (ALC)

- **Laboratory Sections:** Tu 12:30 pm – 2:20 pm   ITLL 2B10   18A – 31B
  Th 12:30 pm – 2:20 pm   ITLL 2B10   18A – 31B
  F   8:00 am – 9:50 am   ITLL 1B10   1A   – 8B

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   2:00 pm – 4:00 pm
  Tu & Th 11:30 am – 12:30 pm
  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 team members (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 team members (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.
- <u>NOTE:</u> Some presentations will take place during this course's final exam time, Sunday, December 17th, 7:30 pm - 10:00 pm.

General Comments

- Keep cell phones off 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: Monday, September 25
    Design Report 2: Monday, October 23
    Design Report 3: Monday, November 13
    Design Report 4: Tuesday, December 19

- 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 25th 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 awhile 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.**