

# AE 8002 Graduate Student Seminar

## Syllabus

### Georgia Institute of Technology

#### Overview

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Credits:                      1.0 semester hours (pass/fail)  
Office Hours:                please email me

#### General Information

##### Course Description

Introduce AE graduate students to well established aerospace researchers and topics, discuss / demonstrate basic graduate student resources and skills.

##### Purpose

- Introduce graduate students to aerospace researchers and topics from all AE disciplines.
- Introduce graduate students to research conducted within the School of Aerospace Engineering.
- Introduce graduate students to AE and Institute personal, academic and research resources.
- Introduce a scholarly culture and stimulate desire for life-long learning

##### Goals and Learning Objectives

- Familiarity with a diverse array of research and professional topics within the field of Aerospace Engineering

##### Grading & Assessment

This is a Pass/Fail course. To pass you must meet the following Requirements:

1. Certify your attendance at qualified Classes or Events
2. Certify your attendance at a minimum of 6 qualified Technical Talks
3. Write a Comparative Analysis of three Technical Talks using the rubrics on Canvas.

**Class Attendance.** This course requires a combination of seminar classes offered on Tuesdays, and technical talks by external guest speakers. **To pass this seminar course, you must attend 15 of these events, 6 of which must be technical talks.**

**Technical Talks.** AE hosts a number of Technical Talks each semester. Talks that qualify are AE level seminar talks, faculty candidate talks and Gebhardt Lectures. Talks in other departments can only be counted if permission is granted by the instructor in advance.

**Brown Bag Events.** Additionally, up to one (1) AE Brown-Bag event (you must attend both presentations in each event) may be counted towards your attendance for a technical talk. This is intended as a 'make-up' mechanism in case a student must miss other technical talks due to work- or illness- related issues..

**Comparative Analysis Paper.** Due at 9am on November 8. Please submit online via Canvas.

This assessment consists of a 2-page comparative analysis of 3 technical talks attended this semester.

**Formatting & Style.** The Comparative Analysis Paper must meet the following formatting requirements:

- A cover sheet (not counting as part of the two pages), containing the following pieces of information
  - A Title (e.g., 'AE Seminar Comparative Analysis')
  - Student Name
  - Semester
  - List of classes (topics) attended
  - List of seminars attended with title, name of presenter and date & location
  - The 3 seminars/speakers you've chosen to write about, should be indicated with an Asterix (\*)

**Content.** Within the comparative analysis paper itself, please compare and contrast the following topics:

- **Speaking style.** This includes the way they spoke (volume, tempo, voice modulation, use of pauses), their hand gestures, body language
- **Presentation style.** This includes their use of visual aids (e.g. power point slides), interactivity, ratio of graphics, equations, video to text in their presentation.
- **Use of graphics in the presentation.** What was the purpose of graphics in their presentation? Did they use pictures, graphics, videos, charts, etc.? Were these graphics effective in conveying their message?
- **Effectiveness at conveying technical content.** How much of the presentation did you understand? How much of the presentation did you feel an expert in the room understood? How much of the presentation did you feel an undergraduate might understand? Did you feel their problem was worthy of research? Did you feel that their approach was appropriate?
- **Self-Improvement.** Have you learned any presentation skills you hope to apply to your own oral presentations? What specific techniques, methodologies, presentation styles, etc., - if any - do you intent to leverage in your own public speaking at technical meetings, conferences, and other relevant events?