**AE 8001 AE Graduate Seminar**

**Hours:** 1-0-1

**Catalogue Description (25 words or less):**

Introduce AE graduate students to world-class aerospace researchers and topics, discuss / demonstrate basic graduate student resources and skills.

**Prerequisites:**

None / Graduate standing

**Probable Instructors:**

*Ruffin*, *Holzinger, Feigh, Gunter*

**Course Objectives**

* Introduce graduate students to world-class 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 academic and research resources
* Inculcate a scholarly culture and desire for life-long learning

**Learning Outcomes**

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

**Course Composition:**

The course is composed of both attendance at School of Aerospace Engineering sponsored seminars and attendance at lectures on topics designed to introduce students to graduate school. Approximately 10 seminars and 10 lecture topics will be offered each semester. Students should choose a total of 75% or more of these events (no more than 15 required) to attend with their advisor from a list of seminars and topics provided the first week of class.

**Lecture Topics:**

In addition to approximately 10 seminars each semester, a selection of 10 topics will be available for students. Examples of likely topics include:

* 1. Success in Graduate School (overview of expectations, emphasis on research productivity and impact).
  2. AE research areas, an overview (Ideal for unfunded and MS students)
  3. Research Funding opportunities including externally sponsored research, national fellowships and scholarships, coops and internships.
  4. Strategies for success and faculty expectations for doctoral qualifying exams.
  5. GT Computer Infrastructure & Responsibilities (GT computer accounts, compute cluster access, software availability, use of cloud computing and printing).
  6. CETL & Teaching Improvement; teaching practicum & resources.
  7. Dissemination of research, publication types and venues. Sources of supplemental funding for attendance at conferences.
  8. Conducting a literature review and reference library services.
  9. Publication preparation (LaTeX, MS Word, Vector Graphics).
  10. ITAR training / Overview of CPT and OPT for foreign nationals.

**Evaluation:**

80% of the course grade will be based on participation in 15 activities

20% of the course grade will be based on written comparative analysis of 5 seminars attended.

**Accommodations for Learning Needs:**

If you have learning needs that require some adaptations for you to succeed in this course, please contact the Office of Disability Services on campus (http://www.disabilityservices.gatech.edu/). The instructors would be happy to arrange to accommodate students’ learning needs based on their recommendations.

**Honor Code:**

Students are expected to abide by the Honor Code (www.honor.gatech.edu).

**Attendance Policy:**

See http://www.catalog.gatech.edu/rules/4/ for Georgia Tech’s attendance policy.