

AEM 495
Aerospace Engineering Seminar

Instructor: Dr. James P. Hubner
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Office Hours: MTW 9:30 – 10:30 am, or by appointment

Lecture Hours: TR 8:00 am – 9:15 pm, 112 Hardaway Hall

Credit Hours: 2

Co-Requisite: AEM 402

Required Text: None

Web Page: Blackboard will be used as the class web portal. Log in to <http://ualearn.blackboard.com> with your myBama account information and select **201340-AEM-495-001**. Course documents, assignments, lecture material and other material will be posted at this site. **For technical questions regarding Blackboard Learn, contact the Office of Information Technology at 348-3532.**

Description: Selected contemporary life and professional experience topics are covered. There are visiting lecturers and extensive student participation. A number of non-technical topics of immediate interest to seniors about to enter the work force are explored. Each student must complete a personal résumé, two major writing assignments and an oral presentation. **Writing proficiency is required for a passing grade in this course.**

Objectives:

- Provide senior students with an understanding of professional and ethical responsibility.
- Provide students with the ability to communicate effectively.
- Broaden the student's education with the understanding of the impact of engineering solutions on society.
- Provide students with the recognition of the need for life-long learning.
- Provide students with knowledge of contemporary issues.

Class Policy:

Lecture:

Attendance and on-time arrival is mandatory. Two absences or excessive tardies are permitted, afterwards the student's final letter grade will be deducted by a +/- increment for each additional absence. Special cases (for example an extended sickness) will be handled independently if a written request is submitted with appropriate documentation. Students are responsible for all scheduling and policy announcements made in class. Power-off or silence electronic items that can disturb the lecture or distract your attention.

Several invited guests will visit throughout the semester and will discuss a variety of engineering and non-engineering topics. Your respect, undivided attention and engagement are expected. This will be considered as part of your participation grade.

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Assignments: Each student will produce a resume, a written proposal, a technical abstract and a technical paper for grade. Each student will also present a short technical presentation to the class. **Written documents require coherent, logical and carefully edited prose**, demonstrating higher-level critical thinking skills such as analysis and synthesis. All assignments will be graded with comments and returned. Finally, students are required to keep a 3-ring notebook to store handouts from the guest presenters and keep notes from the presentations. Further details regarding these assignments will be discussed in class.

Exams: There are no exams or quizzes.

Grades: Grades will be based on the following assignment breakdown:

- Attendance/Participation: 35%
- Paper Review: 5%
- Resume: 10%
- Proposal: 10%
- Technical Paper Abstract: 5%
- Technical Presentation: 10%
- Notebook: 5%
- Technical Paper: 20%

Services: Students requiring disability services must follow the ODS (<http://ods.ua.edu>) guidelines. University counseling services are available at <http://sa.ua.edu/counseling>.

Honor Pledge: I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at The University of Alabama. I have read the Academic Honor Code, which explains disciplinary procedures that will result from the aforementioned. I understand that violation of this code will result in penalties as severe as indefinite suspension from the University.

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Schedule

Date	Topic	Assignments and Resources
Aug	22 Introduction to the course	
	27 FE Exam: Dr. Beth Todd	http://ncees.org/exams/fe-exam/
	29 Professional Registration: Dr. Sam Gambrell	http://www.bels.alabama.gov/pdfs/Law%20&%20%20Code%20-%20September2011.pdf
Sep	3 Engineering Ethics: Dr. Joseph Allen	Paper Review Due (8 am) http://www.nspe.org/ethics/index.html
	5 Resumes/Myers Briggs Assessment: Ms. G. Howell	http://career.ua.edu/resources/handouts.cfm ; http://www.myersbriggs.org/
	10 AIAA Code of Ethics: Dr. Mike Freeman	https://www.aiaa.org/
	12 Technical Writing: Ms. Jennie Vaughn	http://writingcenter.ua.edu/
	17 College of Engineering: Dr. Chuck Karr	http://eng.ua.edu/
	19 Campus Expansion: Mr. Tim Leopard	Resume due (5 pm) http://www.uafacilities.ua.edu/planning/index.html
	24 Workplace Behavior: Ms. Teresa Faulkner	http://eop.ua.edu/harrasment.html
	26 Identity Theft: Dr. Caroline Fulmer	http://www.consumer.ftc.gov/features/feature-0014-identity-theft
Oct	1 Leadership: Ms. Shelly Jones	
	3 E-Fair	Technical Paper Abstract due (5 pm)
	8 Tuscaloosa Chamber of Commerce: Mr. Jim Page	
	10 Public Office: The Honorable Walt Maddox	http://www.tuscaloosa.com/Government/
	15 Entrepreneurship: Ms. Gina Simpson	
	17 Graduate School and Continuing Studies: Mr. Patrick Fuller and Mr. Allan Guenther	http://graduate.ua.edu/ ; http://continuingstudies.ua.edu/
	22 Private Pilot: Mr. Warren Ross	
	24 Professional Pilot: Mr. Kevin Dye	
	29 Fitness/Goals: Ms. Michelle Diltz	
	31 Fall Break	Proposal due (5 pm)
Nov	5 Investing: Mr. Jason Ware	
	7 Home Inspection: Mr. Ron Martin	
	12 Mortgages: Mr. Lance Johnson	
	14 Myer Briggs Test Results: Ms. Gayle Howell	
	19 Student Presentations	
	21 Student Presentations	Notebooks and Technical Paper Draft due (5 pm),
	26 Student Presentations	
	28 Thanksgiving Break	
Dec	3 Student Presentations	
	5 Student Presentations	Technical Paper due December 6th (5 pm)