ENAE 100 Fall 2012 - Syllabus
Aerospace Engineering Profession
Tuesdays, 12:30-1:45pm EGR1202

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(Tentative Schedule)

Date	Topic	Assignment Due
9/4	Introduction, Course administration	
9/11	Undergraduate Program/Student Societies	Essay: becoming an Aerospace Engineer
9/18	Laboratory I	Air & Space Museum
9/25	Laboratory II Select Projects	Anderson Reading/Questions through p. 140
10/2	Leadership and Teamwork	Project timeline—group assignment
10/9	Aeronautics Seminar	Anderson Reading/Questions through p. 240
10/16	Guest Speaker I	Join a student society
10/23	Astronautics Seminar	
10/30	Guest Speaker II	
11/6	Rotorcraft Seminar	Project Update—group assignment
11/13	Student Researchers	
11/20	No Class Happy Thanksgiving	Work on Projects
11/27	Communication and Professional Development	
12/4	Guest Speaker III	*Posters submitted to copy center (group assignment) AND *Copy of signed 4 year academic plan
12/11	Project Poster Session	

Required Text

Anderson, J. (1999). *A history of Aerodynamics: And its impact on flying machines*. New York: Cambridge University Press. ISBN: 0521669553

Assignments

Assignments will count toward 20 percent of your final grade. Assignments will normally be transmitted electronically using the assignment feature on elms (blackboard). Emailed assignments will **not** be accepted. After submitting your assignment, you will no longer be able to access it to make changes, so please make sure it is correct before submitting. **Responses are due by 9:00 AM on the due date.** However, the signed 4 year academic plan must be submitted via hard copy and will be due at the start of class on the assigned due date. Students who submit late assignments will not receive full credit. The instructor reserves the right to refuse any late assignments.

Group Project

A group project is assigned at the beginning of the semester. This group project will count toward 30 percent of your final grade. The list of group project topics will be generated by Aerospace Engineering faculty members, and

each project must demonstrate a principle of aerospace engineering. Students may select a group project by signing up electronically using a Doodle form. The link to the Doodle form will be available on elms and will be sent to students via email. Students will be notified in class and on elms of the specific day and time the Doodle link will be made available. Once the Doodle form is sent, students may sign up for projects on a first-come, first-served basis. All students should be signed up for a group project no later than the assigned due date listed on the syllabus. Groups of about 4-6 people will be formed.

After selecting a group project, each group will be responsible for submitting (1) a timeline at the beginning of the semester explaining their action plan for completing the project, and (2) a project update providing a mid-semester progress report. For each of these two assignments, only one response per group needs to be submitted on elms. However, the response must include the names of each group member in order for everyone to receive credit.

Each group will be responsible for completing their selected project and developing and printing a poster board display. At least one member of each group must submit the final poster in .pdf or .doc format both on elms as well as to the Engineering Copy Center (1123 Glenn L. Martin Hall) by the assigned due date. Each group is required to present their poster and research at the end of the semester. The final poster and presentation are required to pass this course.

Laboratory Sessions

There are two laboratory sessions. The class will be divided into 4 groups (Alpha, Bravo, Charlie, Delta) and detailed instructions (on elms site) will be provided indicating which specific labs each group will visit during each session.

Attendance

Attendance and in-class participation are an integral part of this course. Therefore, attendance counts for 50 percent of your final grade. Attendance will be monitored by sign in sheets. **It is the student's responsibility to make sure to sign in upon entering the classroom. Each student may only sign in on his or her own behalf.** Please pay special attention to section 1 (b) in the Code of Academic Integrity policy (link below) regarding fabrication as a form of academic dishonesty and keep this in mind when reviewing the attendance policy for this course.

The instructor is willing to work with any student who needs to miss class meetings if they conflict with religious practices. However, you must provide **advance notification in writing (email)** if this is the case. In cases of religious observation, the student must notify the instructor via email as soon as possible and no later than the end of the schedule adjustment period.

Except during a major scheduled grading event, students may be excused from a single lecture for a medically necessitated reason. Students must make a reasonable attempt to inform the instructor of their illness prior to the class, and present a self-signed note or email attesting to the date of the illness. This note or email must include an acknowledgement: (a) that the information provided is true and correct, and (b) that the student understands that providing false information to University officials is a violation of Part 9(h) of the Code of Student Conduct.

Students who miss the end of the semester poster session due to illness shall be required to provide the instructor with written documentation of the illness from the University Health Center or from his or her own health care provider. The University Health Center or health care provider shall verify dates of treatment and indicate the dates the student was unable to meet academic responsibilities. The instructor will work with the student to determine an appropriate method of making up the missed work.

Electronic Devices

Electronic devices such as laptops, cellphones/smartphones, and headphones, are **not** a necessary component of this course. It is expected that students will devote their full attention to all speakers throughout the semester. Unless previously approved for use, students will be asked to put away any electronic devices during lectures and/or presentations.

Academic Integrity
All students are expected to be familiar with the University of Maryland's policy on academic dishonesty and the Code of Academic Integrity administered by the Student Honor Council: http://www.president.umd.edu/policies/iii100a.html.

Accommodations for Persons with Disabilities:
Students who have a documented disability and wish to discuss academic accommodations, please contact the instructor as soon as possible.

Grading

Assignment (20% of final grade)	**Points**
Essay: Becoming an Aerospace Engineer	10
Air and Space Museum	10
Anderson Reading & Questions Part I	5
Anderson Reading & Questions Part II	10
Join a Student Society	10
Signed 4 Year Plan	10
	Total=55

Group Project (30% of final grade)	**Points**
Group Project Timeline	5
Group Project Update	5
Group Project Poster	20
Group Project Poster Session/Presentation	25
	Total=55

Attendance (50% of final grade)	**Points: 14**

Grade	**Percent**
A+	100
A	93-99
A-	90-92
B+	88-89
B	83-87
B-	80-82
C+	78-79
C	73-77
C-	70-72
D+	68-69
D	63-67
D-	60-62
F	59 and below

Expectations
The objective of this class is to introduce the student to various aspects of the aerospace engineering profession through views from faculty, students, and professionals outside of the academic community. The students are exposed to the resources of the Department including the faculty, research laboratories, the computer network, and student societies as well as to those resources near the University. At the end of the course, the individual student should be able to make an informed decision whether or not their choice of academic program is aerospace engineering.