

UNIVERSITY OF NOTRE DAME
Department of Aerospace and Mechanical Engineering
AE 440: Flight Mechanics and Introduction to Design
Fall 1998

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This course is intended to provide you with a more detailed study of atmospheric flight vehicles, their performance as well as introduce you to a variety of issues related to flight vehicle system design. You will build upon topics presented in a number of earlier courses, in particular, AERO 240 and AERO 350. We will assume that you have a basic understanding of inviscid aerodynamics as applied to both airfoils and wings. You are encouraged to review those topics from your lecture notes and textbooks used in these earlier courses.

Lectures and Attendance Policies:

The course will be presented in three, 50 minute lectures each week. Attendance at all lectures is strongly encouraged for it will provide the best opportunity for asking questions and keeping pace with the material presented in the course. Excessive absences may adversely affect your performance in this course. Attendance will be monitored.

Homework Projects:

Homework will be assigned throughout the course in the form of "projects" and their due dates will be indicated when they are assigned. All students are encouraged to do all homework projects since they make-up a significant portion of your grade. Each "project" should be submitted in the form of a "technical memorandum". The basic format for the memorandum is shown on the reverse side of this page.

Academic Honor:

All work submitted for grading in this course must be your own. All examinations will be in-class and self-proctored. You are encouraged to discuss homework problems with each other; explaining how to do something is a sure way to learn it yourself. The work that you submit for grading must be your own or the source of the work must be cited (i.e. developed in conjunction with Ms. Y, copied from Mr. X, copied from old course files, etc.). If you do not understand the distinction between copying and receiving assistance so that you can do the work please see your instructor. We would recommend that you not submit an assignment rather than submitting someone else's work without giving them proper written credit for being the source of the work. This policy also covers all computer work which is done as part of this course.

Grading:

Grades will be based on the following criteria:

Exams (2 at 20% each)	40 %
Wed. 30 Sept., Wed. 18 Nov.	
Homework/Design Projects	40%
Final Exam	20 %

Textbook: There is no required text for the course. The textbooks you used in AE240 and AE350 should be used to provide background information.

UND / Aerospace Engineering

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF AEROSPACE AND MECHANICAL ENGINEERING
AE 440 : FLIGHT MECHANICS AND INTRODUCTION TO DESIGN

DATE: X/X/XX

TO: Prof. S. Batill

FROM: Mr. or Ms. Engineering Student

SUBJECT: Appropriate Homework Project Title

References:

1. (all appropriate references must be cited)
2.

Summary: This single paragraph (<100 words) states important observations and conclusions. This is the only paragraph the "boss" may read, so his/her impression of your efforts will be limited to a few important sentences.

Results and Discussion: The discussion should overview what was done particularly if there was some variation in assigned project. It should also indicate methods used in analysis. The most important part of this section is a discussion of the results and the implication of these results.

E. Student

Data: All tables, figures, plots, computer output and other supporting material should be included as attachments to the report, appropriately labeled. If you have any questions concerning formal data presentation please ask.