A&AE 421 Flight Dynamics and Control

1. Instructor  
Professor Dominick Andrisani  
Office: Room 328 Grissom Hall  
Office phone: 494-5135  
login: andrisan@ecn.purdue.edu

2. Textbook:  
Airplane Flight Dynamics and Automatic Control  
(Part I: Chapters 1-6 and Appendices A-D), **1994 edition**, by Jan Roskam. This book is published in as a paperback and as a 3-ring binder.

3. Seating: Starting next class keep the same seat throughout the semester.

4. Grading  
1/4 of grade is based on homework (not including the project)  
1/4 of grade is based on in class tests (1 or 2)  
1/4 of grade is based on the semester project  
1/4 of grade is based on final.

5. I reserve the right to raise or lower your grade by as much as one letter grade based on my judgment of your knowledge of the material in this course.


8. Class attendance is strongly recommended. You are responsible for obtaining notes and homework assignments which take place o days you miss.

9. We will cover all six chapters of the text.

10. Teaching assistant: ??

11. Class list  
"Matthew Wysel" <mwysel1@purdue.edu>,  
"Adam Butt" <butt@purdue.edu>,  
"Brian Darr" <darr@purdue.edu>,  
"Jaret Matthews" <matthejb@expert.cc.purdue.edu>,  
"Brian Barnett" <bbarnett@purdue.edu>

12. Web site:  
A&AE 421 Bibliography


Hoak, D. E., *USAF Stability and Control DATCOM*, Air Force Flight Dynamics Laboratory, published in nine volumes or sections, Volume 4 is the most useful.


**Homework Policy**

1. Homework is collected, graded, and returned.
2. NO LATE HOMEWORK IS ACCEPTED (unless your excuse makes me laugh or cry).
3. Cooperation on homework can be helpful in learning. Copying someone's homework will not be tolerated.
4. In reading assignments you are responsible for all material whether it is covered in class or not.
5. Homework will be graded by the TA.
6. Homework Format:
   a. Staple multiple pages together.
   b. Every answer must contain physical units. (e.g. feet, seconds, slugs, etc.)
   c. All answers and physical units must be enclosed in a box.
   d. Answers should generally contain three significant digits (i.e. 2.15, 3.24x10^{-4}).
   e. Do not hand in a paper pulled from a spiral binder.
   f. Sketches defining coordinate directions, axis system, etc. are almost always required.
NOTES ON NOTE TAKING

1. Date all notes. This indicates the start and end of a lecture for comparison with other notes.
2. Copy everything written on board.
3. Learn to take notes verbally without waiting for the notes to be written by the professor.
4. Take notes on material not written on the board as well. At least jot down key ideas. Fill in
   the explanation at home.
5. Review, correct and copy over all notes shortly after class. Use the text to help. Any
   questions which result should be resolved. After this process the copied over notes should
   contain no errors and you should understand them thoroughly. Notes should be as thorough
   as a book.

Remarks
Step 5 is important if the class is being taught without a textbook.

My Responsibilities in this Course

1. Facilitate your learning the material of this course.
2. Help you develop into mature, confident, competent, ethical engineers and citizens. This
   involves material not found in the book or course description.
3. Evaluate your level of skill (assign a grade to your work).

Your responsibilities

1. Learn the material in this course.
2. Conduct yourself in an ethical manner regarding homework and tests and your relationships
   with colleagues and Purdue University.
3. Achieve the level of skill you are capable of.
4. Learn to speak and write effectively.
5. Survive till tomorrow.

Necessary Student Skills

1. Note taking from lectures.
2. Note taking from book.
3. Time management skills including regular reading, regular homework, and regular review of
   notes.
4. Learn to perform well in time restricted situations, e.g., quizzes and tests.