1. Instructors
Professor Dominick Andrisani
Office: Room 3203 Armstrong Hall
Office phone: 494-5135
login: andrisan@purdue.edu

Professor Bernard Wulle
Office: HGR6
Office phone: 49-49973
login: bernard.w.wulle.1@purdue.edu

Teaching Assistant
James Goppert (TA for homework and project grading)
login: jgoppert@purdue.edu

Student instructor pilots will be provided by Aviation Technology.


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

5. Eng. Grading
6/8 of grade is based on homework and 6 flight experiments
2/8 of grade is based on the final exam.

6. 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 assignments on days you miss.

9. We will cover chapters 1-6, 8, 9, 11-13, 15-17, 19-23, 28-33 of the text.
A&AE 490A/AT490 Bibliography


AGARD, *Introduction to Flight Test Engineering*, AGARDograph No. 300, Volume 14 of AGARD Flight Test Techniques Series, 1995 (all the volumes in this series are useful).


Smith, Hubert C., *Introduction to Aircraft Flight Test Engineering*, reprinted as JS312647C by Jeppesen Sanderson, Inc., 1988, available by special order at amazon.com or the bookstore. (This text is more understandable but less comprehensive than the textbooks mentioned above.)


USAF Test Pilot School, *Flight Test Handbook. Flying Qualities: Theory (Vol. 1) and Flight Test Techniques (Vol. 2)*, AFFTC-TIH-79-2, 1979 (I don’t yet have this).

**Flight Test Teams:**

We will attempt to develop some of the flight test culture in this course using well-integrated teams of AAE and AT students where possible. We will fly experiments in the Frasca 242 fixed base Simulator, the Cessna 182 aircraft and the Boeing 727 moving base simulator.

3 people per team, maximum of 10 teams (30 students fly).
No more then one Aviation Technology student per team
Each team must have at least one pilot.
Roles (to be alternated among the three students on a team)
- Pilot (left seat)
- Co-pilot/Test engineer (right seat)
- Test Manager (at the Frasca Graphical Instructor Station (GIS)T desk))

The Frasca 242 Simulator is located in the Holleman-Niswonger Simulator Center, west of HGR 6 at the Purdue U. Airport.

Students are to organize themselves into teams and propose your teams to the faculty for their approval. Teams should determine which simulator session work for them. We will have to coordinate among ourselves in order to fill the available time slots.

In a week where we are conducting flight operations (e.g. in the simulator), we will not meet for Thursday class. Students will instead show up at the appropriate time for their simulator session.
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**Notes:**
- There will be only 10 teams of 3 undergraduate students each.
- Hopefully each team will have 1 AT student and 2 AAE students.
- Each team will have one student with piloting experience, preferable an AT student.
- There will be 9 flight experiences.
- Six flight experiences involve experiments requiring team write-ups.
- Individual homework and team write-ups and peer evaluation determine the course grade. There will be a final exam.
- AT students are graded by Professor Wulle using appropriate grading criteria.
Useful Web Sites Relating to Flight Testing

US Navy
http://flighttest.navair.navy.mil/

USAF Edwards Air Force Base
http://www.edwards.af.mil/
http://afftc.edwards.af.mil/

NASA
http://www.dfrc.nasa.gov
http://www.dfrc.nasa.gov/trc/ftintro/index.html

Society of Flight Test Engineers
http://www.sfte.org/

Society of Experimental Test Pilots
http://www.netport.com/setp/

Calspan
http://www.calspan.com/flight.html

National Test Pilot School
http://www.ntps.com/

International Test and Evaluation Association (ITEA)
http://www.itea.org/

Experimental Aircraft Association
http://www.eaa.org/

FEDERAL AVIATION ADMINISTRATION
http://www.faa.gov/
http://www.lockheedmartin.com/
http://www.boeing.com/

Federal Aviation Regulations
http://www.faa.gov/avr/AFS/FARS/far_idx.htm

Private Pilot Training
http://lights.chtm.unm.edu/~sarangan/aviation/training/training.html

Jeppesen
http://www.jeppesen.com