

AE 416: Applied Aerodynamics

Fall 2013

Course Information

- Instructor:** Prof. M. S. Selig
Office Hours: WF @ 3-4 PM
- Course Meets:** MWF @ 12-12:50 PM
- Prerequisite:** AE 311 (Incompressible Flow)
- Course Description:** Two-dimensional and finite wing theory with emphasis on the mechanisms of lift and drag generation; Reynolds number and Mach number effects; drag analysis; high-lift wing systems; propeller and rotor aerodynamics; control surface design; application of V/STOL aerodynamics.
- Credit:** 3 undergraduate hours, 3 or 4 graduate hours
- Textbook:** Barnes W. McCormick
Aerodynamics, Aeronautics, and Flight Mechanics
Wiley, Second Edition, 1995
- Requirements:** 10 Quizzes
8 HWs
2 Hourly Exams + Final Exam
- Grading:**
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| Quizzes | 10% |
| Homeworks | 45% |
| Hourly Exams | 20% |
| Final Exam | 25% |
- Grad credit: Term Paper
- Homework:** Homework is due at the beginning of class.
Late homework penalty of 10% per day.