AE 311: Incompressible Flow  
Fall 2016  
Course Information

Instructor: Prof. Michael Selig, 305 Talbot Lab, 244-5757, m-selig@illinois.edu  
Office Hours: WF 4-5 PM

TAs:  
Neil Mehta, namehta4@illinois.edu, Office Hours: M 5-6 PM, 106B6 Engineering Hall  
Tu 5-7 PM, 4104 MSEB  
Or Dantsker, dantske1@illinois.edu, Office Hours: MF 3-4 PM, 104 Talbot  
Office Hours start in Week 2

Course Meets: MWF @ 10-10:50 AM in 103 Talbot Lab

Credit: 3 hours  
Course Number: 20785 Section A  
Prerequisite: AE 202 (Aerospace Flight Mechanics) and Math 241 (Calculus III)

Description: Equations of motion for incompressible flow, both inviscid and viscous; potential flow theory, inviscid airfoil theory: two- and three-dimensional, Navier-Stokes equations, laminar boundary layer, and transition to turbulence.

Textbook: John Anderson  
Fundamentals of Aerodynamics  

Websites:  
Compass 2g for grades, etc
Course materials:  
http://m-selig.ae.illinois.edu/classes/ae311
Communications:  
Course page Signup link  
http://piazza.com/illinois/fall2016/ae311/home  
http://piazza.com/illinois/fall2016/ae311

If you have a question, use Piazza.

Grading:  
Quizzes (9+) and Class Participation 10%  
Homeworks (9+) 20%  
Midterms (2) 40%  
Final Exam (comprehensive) 30%  
100%

Grading Scale:  
A 100 - 90%  
B 89.99 - 80%  
C 79.99 - 70%  
D 69.99 - 60%  
F 59.99 - 0%

+/- split is 3/4/3 in a bracket (>=)  
e.g. 97 is A+, 96.98 is A

Quizzes: 10 mins, in class, closed book

Homeworks: Assigned weekly (approximately). Due at the beginning of class, usually on Wednesday. No late homework will be accepted. Some electronic files are due with homework (via Compass 2g) due at the beginning of class. Working together? OK & encouraged, but submit your own work. Copying?: No grade (both parties). Sharing?: Sharing spreadsheets and other electronic data is considered Copying.  
http://studentcode.illinois.edu/


Exam Dates:  
Midterm 1: Friday, September 30 10-10:50 AM  
Midterm 2: Friday, November 4, 10-10:50 AM  
Final Exam: Wednesday, December 14, 1:30-4:30 PM  

Requests for grade corrections should be made within one week after the assignment/exam is returned.

Emergency?: Decide: Building Evacuation (GET OUT) and Shelter-In-Place (STAY IN). Take a few minutes to learn the ways to exit this building. Use your instincts. Building Evacuation: e.g. fire => exit. Shelter-In-Place: e.g. WX, tornado => go to basement; security threat => block door, be quiet. Sign up for emergency text message: http://emergency.illinois.edu  
For more: http://police.illinois.edu/safe  
Any questions, see me, or go to: http://police.illinois.edu, or call 217-333-1216.  
See video: http://police.illinois.edu/emergency-preparedness/run-hide-fight/

The instructor reserves the right to make changes. Any changes will be announced in class. It is your responsibility to attend class and keep track of proceedings.