Syllabus

ENG 103-2: FLUID MECHANICS

University of California at Davis
Mechanical and Aeronautical Engineering

Meets:  MWF 1:10-2:00, 202 Wellman
       M 2:10 – 3:00, 129 Wellman

Instructor:  Dr. Jason Roney
Office:  Bainer 1236A/Saltation Wind-Tunnel Facility
Telephone:  (530) 752-8686
Email:  jaroney@ucdavis.edu


Midterm:  Tentatively Monday, May 14, 2001 (2 hours)
Final:  Tuesday, June 12, 2001 8:00-10:00 a.m.
Last Day of Class: Wednesday, June 6,  Also, No Class May 28, 2001

Grading:

Homework*/Quizzes*: 25%
Midterm: 35%
Final (Comprehensive): 40%

*Homework will be due at the beginning of class on the due date.  Late policy: 50% off, one day late, and will not be accepted 2 days late.  Homework will be assigned in class.

* Quizzes will be announced one week prior to the day and will be periodic throughout the quarter or at the discretion of the instructor.

Course Outline:

A solid overview of Chapters 1-7 from White, 1999 will be covered in addition to supplemental material not in the book.

<table>
<thead>
<tr>
<th>Course Chapters</th>
<th>1.1-1.9</th>
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<tbody>
<tr>
<td>1. Introduction</td>
<td>2.1 - 2.8</td>
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<td>2. Pressure Distribution in a Fluid</td>
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<td>3. Integral Relations for a Control Volume</td>
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<td>4. Differential Relations for a Fluid Particle</td>
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<td>5. Dimensional Analysis and Similarity</td>
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<td>6. Viscous Flow in Ducts</td>
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<td>7. Boundary Layers</td>
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Course Outline Subject to Appending as the Quarter Progresses.