Instructors: Kenneth A. Smith 66-540 253-1973 kas@mit.edu
               Clark K. Colton 66-452 253-4585 ckcolton@mit.edu
Instructor G Matt Lazzara 66-463 253-6490 mlazzara@mit.edu
TAs Kimberly Bryan Kosto 66-463 253-6490 bryank@mit.edu
           Bart Hendriks 56-389 258-9488 hendriks@mit.edu

Lectures: MWF @ 11:00 am in 66-110
Recitations: T @ 10:00 am in 66-168 (M. Lazzara)
                T @ 11:00 am in 66-160 (M. Lazzara)
                T @ 11:00 am in 66-154 (Prof. Colton)
                T @ 12:00 pm in 66-154 (Prof. Colton)

Office Hours: Prof. Smith: Fri. 9:30-11:00 am
                Prof. Colton: Wed. 1:00-2:30 pm

       including software tools, users’ guides, and associated CD, Wiley (2001)

Reading: Reading assignments are listed on the syllabus. Additional reading
         assignments may occasionally be announced in class.

Homework: Homework assignments will be given out on Wednesdays and will be
          due at the beginning of class the next Wednesday, unless otherwise
          specified. Solutions will be available by 4:30 pm on days homework
          is turned in. No late homework will be accepted.

Lectures, Reading Assignments, and/or Quizzes: There will be a 10-min closed-book quiz on certain Fridays. Quizzes
                                               comprise two short problems. The problems will be drawn from the
                                               material contained in the lectures, text readings, or recitation problems,
                                               covered that week or the homework problems turned in that
                                               week. We will strive to make one problem quantitative but phrased to
                                               emphasize concepts rather than mathematical details. The second
                                               problem will be qualitative. The lowest quiz grade will be dropped.
                                               There will be no make-up quizzes.

Recitation Problems: Recitation sections will be devoted to working example problems.
                     Problems will be handed out in class the Wednesday before recitation.
                     You should work the problems to the best of your ability before coming to class on Tuesday. Students will be called on in recitation to
work problems.

**Grading:**

- Hour exams (3) – 55%
- Final – 20%
- Homework – 10%
- In-class quizzes (drop lowest 2 grades) – 15%

**Policy on Collaboration:**

Collaboration on homework is permitted subject to the rules described in the attached document “10.302 Policy on Collaboration”.

**Historical Class Performance:**

Low exam averages often create unnecessary anxiety during the term due to the perception that low exam averages will result in a C-centered class. Student performance evaluated on a composite basis (exams, class participation, quizzes, and homeworks) has historically been good, and this is reflected in a B-centered grade distribution, as shown in the data from previous years. Averages on individual exams in previous years has ranged from 37 to 74.

**Grade Distributions for Previous Classes:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Fall ‘93</th>
<th>Fall ‘94</th>
<th>Fall ‘95</th>
<th>Fall ‘96</th>
<th>Fall ‘97</th>
<th>Fall’98</th>
<th>Fall’99</th>
<th>Fall’00</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>33 (35%)</td>
<td>26 (25%)</td>
<td>27 (28%)</td>
<td>34 (27%)</td>
<td>30 (37%)</td>
<td>31 (33%)</td>
<td>27 (30%)</td>
<td>23 (27%)</td>
</tr>
<tr>
<td>B</td>
<td>35 (38%)</td>
<td>47 (44%)</td>
<td>54 (56%)</td>
<td>47 (38%)</td>
<td>32 (40%)</td>
<td>30 (32%)</td>
<td>44 (50%)</td>
<td>35 (42%)</td>
</tr>
<tr>
<td>C</td>
<td>19 (20%)</td>
<td>22 (21%)</td>
<td>17 (18%)</td>
<td>37 (30%)</td>
<td>18 (22%)</td>
<td>31 (33%)</td>
<td>15 (17%)</td>
<td>23 (27%)</td>
</tr>
<tr>
<td>D</td>
<td>6 (6%)</td>
<td>8 (8%)</td>
<td>2 (2%)</td>
<td>4 (3%)</td>
<td>1 (1%)</td>
<td>1 (1%)</td>
<td>2 (2%)</td>
<td>3 (4%)</td>
</tr>
<tr>
<td>F</td>
<td>0 (0%)</td>
<td>3 (3%)</td>
<td>1 (1%)</td>
<td>3 (2%)</td>
<td>0 (0%)</td>
<td>1 (1%)</td>
<td>1 (1%)</td>
<td>1 (1%)</td>
</tr>
<tr>
<td>Total</td>
<td>93</td>
<td>106</td>
<td>96</td>
<td>125</td>
<td>81</td>
<td>94</td>
<td>89</td>
<td>84</td>
</tr>
</tbody>
</table>

**Additional References**

10.302 Solution books for the last several years will be available in the Reserve Book Room in the Science Library. Other references that will be on reserve are:


Some General Where-, When-, and How-to Information

Homework assignments

Handing in Homework: HW should be handed in at the beginning of class on Wednesdays. The assignment will specify the manner in which it should be broken into parts. Please drop each separate part into the appropriate pile when turning in the homework. REMEMBER TO WRITE YOUR NAME AND THE APPLICABLE PART NO. ON EACH PART TURNED IN.

Solutions: Solutions to the HW will be available by 4:30 pm the same day outside 66-463.

Picking up corrected homework: Corrected HW should be available outside Rm. 66-463 by Tuesday afternoon, the week after you turn it in.

Grading: If something about the grading isn’t clear to you, you’re welcome to make an appointment with a TA to discuss it. However, please read the solution first. Having read the solution, if you still have questions, feel free to ask.

TA Office Hours

Bart Hendriks Rm. 66-480 (4th Floor Glasshouse) Monday, 4-6:00 pm
Kimberly A. Bryan Rm. 66-480 (4th Floor Glasshouse) Tuesday, 4-6:00 pm

Course Handout

Extra copies of any course handout can be picked up outside room 66-463.

Web Resources

Course Website: http://web.mit.edu/10.302/www
This website is a comprehensive archive of all materials handed out in class, as well as homework, recitation, quiz, and exam problems and solutions.

Course Discussion Forum: http://forums.mit.edu
We plan to make use of the MIT Online Discussion Forums capability for providing communication between students and TAs that is available for view by the entire class.