Syllabus for Math 551
Applied Matrix Theory
Summer 2002, Reference #02610, MTWUF 8:40 AM, CW 122

Instructor: Dr. Hassan Mohammad, CW 46C
Phone: 532-0568
Office hours: MTWUF 9:40 - 10:40 AM (right after class) and by appointment


Grading: There will be three one-hour exams, each covering a successive pair of chapters, of which the first two exams will be worth 90 points and the final exam will be worth 120 points; there will also be labs worth a total of 60 points, and homework assignments (twice a week) worth a total of 120 points. Homework will be due on Monday and Wednesday at 7 PM in the homework box across from the math office (near Cardwell 120). Please clearly mark each assignment with your name, my name, and the course number (Math 551). Late homework will not be accepted. Additionally, each day’s attendance will be worth two points.

Homework: For material covered in a given week, problems will have been assigned the previous week and will also be posted on the course webpage. Hints and answers are given for the odd-numbered problems in the back of the book. Homework will come completely from the even-numbered problems; between five and eight problems will be assigned for each section. We will solve and discuss many problems in class. The exam problems will be similar to the problems that you will solve in the homework and those that we discuss in class. Try to study the section and the try the homework before we cover that section. We can discuss any problem that you have difficulty with either in class or outside of class. Although I won’t give you a full solution, I will help you to the point that any studied student will be able to complete the solution. I will also assign prove/disprove problems for each chapter to help you digest the corresponding concepts.

Calculators: You need a good calculator for this class. By “good” I mean a calculator that is capable of manipulating matrices, such as being able to do row echelon form and reduced row echelon form. For example the TI-83, TI-83+, TI-85, TI-86, TI-89, TI-92, and TI-92+ are all good calculators and I can help if you have problems with any of these calculators (I might not be able to help if you have problems with other calculators). There will be a problem on each exam that will require the use of a calculator.

Labs: We will visit the computer lab, located in Cardwell 41, several times this summer. Due dates for lab assignments will be announced in class. We will be using MATLAB for all of the labs. If you do not complete a lab during the scheduled hour, you can visit the lab during open lab hours. I will be in the lab on Tuesday and Wednesday from 9:50 to 11:00 AM and the teaching assistant (who will be responsible for the lab) will be in the lab from 5:15-7:00 PM on Monday-Thursday.
Help Sessions: There will be help sessions during the summer; the schedule and room numbers are posted across from the Math Office in Cardwell Hall and on the web.

Make-up Exams: No make-up exams will be given. If you have an excused absence from an exam, then your final grade will be based on your other exam scores. If you have excused absences from two hourly exams or the final exam, then you will be given an incomplete and be required to complete the course the following semester. You must contact me before an exam in order to receive an excused absence.

Academic Dishonesty: Plagiarism and cheating are serious offenses and may be punished by failure on the exam, paper or project, failure in the course and/or expulsion from the University and a letter placed in your permanent file. For more information, refer to the academic dishonesty policy in the University handbook.

If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it or which will require academic accommodations, please notify me during the first week of class.

First Week of Homework

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<thead>
<tr>
<th>Due Date</th>
<th>Section</th>
<th>Problems</th>
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<tbody>
<tr>
<td>Wednesday 6/12</td>
<td>1.1</td>
<td>4, 10, 12, 16, 20</td>
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<tr>
<td></td>
<td>1.2</td>
<td>8, 10, 12, 14, 20, 26</td>
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<td>Monday 6/17</td>
<td>1.3</td>
<td>2, 4, 6, 10, 12</td>
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<td>1.4</td>
<td>4, 6, 10, 12, 14, 16</td>
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