Ma322 Fall 2016

Ma322 is an introduction to linear algebra and the theory of matrices. Prerequisites are the mathematical maturity represented by successful completion of two semesters of calculus or the completion of the first and concurrent enrollment in the second. The course covers topics in: linear equations, matrix algebra, determinants, vector spaces, eigenvalues and eigenvectors, and orthogonality corresponding to selected sections in chapters 1-6 of the course text which is Linear Algebra and Its Applications (Fifth edition), Pearson, by David Lay.

The text is an important course resource but the homework problems are in the online homework system and are not assigned from the text. The arrangement of the problems tends to be the major difference among different editions of math texts, so if you have access to an inexpensive copy of an earlier edition then it and the course notes and discussion should serve quite well. Used copies of the earlier editions are generally available online (e.g. Amazon.com) for $25 or less.

The class calendar which contains the tentative class schedule, topics, examination and quiz dates is available at the class home page. The calendar is subject to change, depending on the progress of the course.

THE COURSE HOME PAGE IS  http://www.msc.uky.edu/sohum/ma322/index.htm

Course Topics and Dates:  The Course Calendar listing the material to be covered, relevant homework assignments, and homework due dates is also available at the course web page. The calendar is subject to adjustments and amendments as needed.

The tentative exam schedule is as follows.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>Mon, Oct. 3</td>
<td>4:00-6:00*</td>
<td>TBA</td>
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<tr>
<td>Exam 2</td>
<td>Mon, Oct. 31</td>
<td>4:00-6:00*</td>
<td>TBA</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Dec. 12-14</td>
<td>Check Registrar's web page</td>
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</table>

Any changes in the schedule will be announced no less than two weeks in advance of the affected exam.
• Exam scores are usually curved to adjust the class average to a middle C.
• The midterm exams are two hours and given in the evening.
• There will be an online form in WHS to request alternate exam times when there are conflicts with the exam times. These forms should be filled before the deadline (on the form).
• For each midterm exam, one class will be canceled. However, the date of cancellation shall be announced by each individual instructor.
• The two midterm exams as well as the final are worth 100 points each.
• Use of Calculators on Exams: On the exams you may use scientific calculators, including matrix algebra routines. However, exam answers that are simply the output of calculator routines will generally not receive any credit!
• Homework: This course uses a web based homework system called WHS. Students use the system to obtain homework assignments as well submit them for immediate grading. The system is also used in communicating with their instructors and asking for help.
• Each student has a personal version of each assignment which must be completed before the assignment deadline. If you submit an incorrect answer, you are allowed to submit again (as many times as needed) until you have the correct answer or the assignment deadline has passed.
• The homework problems in the whole course shall be worth a total of 80 points.
• Quizzes (daily): There will be a short quiz given in each class period. Different classes will have different policies about the administration and the content of the quizzes. Instructors also reserve the right to cancel a quiz on specific days. The policies for handling excused absences are also at the discretion of the instructors. Please check the policies from your instructor’s class web page.
• The class quizzes during the whole course will contribute a total of 120 points.

Grade calculations: The course grade will be based on the percentage of the combined total of 500 points (Exams 300, Homework 80, Class quizzes 120). The grade is based on the standard scale.

E – 300 – D – 350 – C – 400 – B – 450 – A

Additional Policies:

• Academic Honesty: Copying on exams and usage of books, notes, or communication devices during examinations is not allowed. Cheating or plagiarism is a serious offense, and it will not be tolerated. Helping someone else cheat is also cheating.
However, the homework is considered part of learning and getting help from others is not considered cheating.

- Students are expected to attend lectures and recitations regularly, be on time and remain until dismissed. Do not leave in the middle of class. Instructors have the right to take off attendance points for coming late or leaving early.
  If you cannot come to lecture, be sure
- In order to be fair to all students, dates for exams and homework assignments are firm. It is very important to take each exam on schedule. Missed work may be made up only due to illness with medical documentation or for other unusual (documented) circumstances (see also the section on late homework in the Common Syllabus for policies on late written assignments). If you have a university excused absence or a university-scheduled class conflict with uniform examinations please contact your lecturer as soon as possible, at least 10 days before the exam, so that an alternate exam can be arranged for you.
- To request an excused absence, please let the instructor know about it next time in class.
- Cheating: Students are responsible for knowing the University policy on cheating.