

Department of Mathematics
Math 260
CRN 5075

Linear Algebra
Fall Term 2007

Christopher Newport University

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Class Hours: MWF 14:30-15:45 pm
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Textbook: *Linear Algebra With Applications*, Steve Leon, 7th ed.

Course Perspective: Math 260 is a prerequisite for many mathematics courses including Math 345, Math 360, Math 420, and Math 440. It is fairly accurate to state that linear algebra is a first course after calculus that introduces students to mathematical proofs. Moreover, linear algebra is a course that involves both theoretical and applied materials. As we will see throughout the semester linear algebra has wide range of applications ranging from economics to computer sciences. The objective of this course is to introduce students to basic topics of linear algebra, including systems of linear equations, matrix operations, vectors and vector spaces, independence, bases and dimensions, coordinates, linear transformations, determinants, eigenvalues, eigenvectors and their applications. This course is also intended to achieve the following goals:

1. Gaining factual knowledge (terminology, classifications, methods, trends)
2. Learning fundamental principles, generalizations, or theories
3. Learning to apply course material (to improve thinking, problem solving, and decisions)

Course Outline:

<u>Chapter</u>	<u>Section</u>
1	1,2,3,4,5
2	1,2
3	1,2,3,4,5,6
4	1,2,3
5	1,2,3,
6	1,2,3

Grading System: The course grade is based on three tests each of which is 25% of the course grade ,and a final exam (Cumulative) which accounts for 25% of the course grade. The tests will be given approximately one month apart . test schedules will be announced in class one week prior to each test. Final exam is scheduled for December 11 from 2:00-4:30 pm.

Grading Scale: The course grade is assinged based on the following scale:

91 - 100 = A	76 - 78 = C ⁺	58 - 60 = D ⁻
89 - 90 = A ⁻	71 - 75 = C	00 - 57 = F
86 - 88 = B ⁺	68 - 70 = C ⁻	
82 - 85 = B	65 - 67 = D ⁺	
79 - 81 = B ⁻	61 - 64 = D	

Homework: Homework will be assigned daily and covered in class the next day.

Attendance: Attendance is necessary, and you are responsible for all class materials, assignments and deadlines.

Withdrawl Policy: The withdrawl policy is the same as an official university policy. *Therefore the last day to withdraw is October 31, 2007.*

University Regulations on Students with Disabilities:

If you believe that you have a disability, you should make an appointment to discuss your needs. In order to receive an accomodation, your disability must be on record in Disability Services located in the Academic Advising Center, Student Union, Room 3125 (Telephone - 594-8763; Fax - 594-8765).

Linear Algebra W/ Applications 7E, S. Leon

<u>Pages</u>	<u>Problems</u>
11 - 12	1(b,c),2,3(a,b),5(a,c),6(a,e),8.
25 - 29	1,2(a,b,d),3(a,b,d),4,5(c,e,j),6(b,c),9,10,13,17.
57 - 61	1(b,c,h),2(a,d,e),4(b),5,7,10,12,14,15,17,18,24.
69 - 71	1,3(a,c),4(a,b),6,7,8(b,c),9,10(b,c),12(a,c),15,16.
96 - 98	2(a,b),3(a,e,g),4,6,11.
103 - 105	1(b,c),2,3(a,b,d),4,5,9,10,11,12.
109 - 110	2(a,d).
121 - 122	1,6,10,12.
131 - 134	1(a,d),2(a,c),3,4(a,b),5,6(a),8(a),9(a,b),10(a,c),11,13,14,17.
144 - 145	1(a,c),2(a,c,e),4(c),6(a,c),7,8,10,11.
150 - 151	3,4,5,7,8,11,14.
161 - 162	1,2,4,5,6,7,9,10.
167 - 170	1(a,b),2(a,c),3,4(a,e),8,10,11,12,15.
182 - 184	1,4,5(a,d),6(a,b),9,17,19,22.
197 - 199	2,3(b,c),4,5,6,8,13,14,18.
204 - 206	1,2,3,4,5.
223 - 225	1,2,3,5.
233 - 235	1(a,d),2,3,4,5,6.
243 - 244	1,2,3(a),5.
310 - 311	1(a,c,g,i),3,4,9,11.
323 - 324	1(a,b,e),2(a,c).
340 - 344	1(a,d,e),2,4,6,26(b,c),27(b),28(a).