SYLLABUS

Math 424-01  Advanced Linear Algebra
Morgan 218, 5:30 p.m.  TTh

INSTRUCTOR: Dr. Kranjc  OFFICE HOURS:
OFFICE: Morgan 454  TTh: 3:15-4:15 p.m., W: 9-11 a.m., and by appointment
PHONE: 298-1286  e-mail: mfmk@wiu.edu

http://www.wiu.edu/users/mfmk/Math424/index.html

TEXTBOOK:  Linear Algebra Done Right by Sheldon Axler
http://www.wiu.edu/users/mfmk/Math101/index.html

PREREQUISITE:  Math 421 or consent of instructor.

COVERAGE:  Selected topics from chapters 1 through 10.

COURSE OBJECTIVES:  Study of vector spaces and linear transformations.  Topics will include
dimension, diagonalization of a linear transformation and Jordan canonical form, volume and
determinants, and inner product spaces.  While in the matrix approach to linear algebra a student learns
how to use the algebra of matrices for rather specific computations, one of the goals of this course is to
show the intuitive background and the abstract hierarchy of the subject.

GRADING:  There will be ten graded weekly assignments or quizzes, each worth 20 points, two one-
hour tests, and a comprehensive final. The tests will be worth 250 points and the final exam 300 points.
Test dates will be announced at least one week in advance.

<table>
<thead>
<tr>
<th>Tentative test Schedule:</th>
<th>test1</th>
<th>Tuesday, September 23</th>
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<tbody>
<tr>
<td>test2</td>
<td></td>
<td>Tuesday, October 28</td>
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<tr>
<td>final (comprehensive):</td>
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<td>Tuesday, December 9 at 6 p.m.</td>
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APPROXIMATE GRADING SCALE:

A: 900-1000
B: 800-900
C: 700-800
D: 600-700
F: 0-600

Absolutely no make-ups without just cause and prior arrangement.

Syllabus subject to change with notice.