Instructor: J. Lawlor  (lawlor@cem.uvm.edu or John.Lawlor@uvm.edu)
Office: Room 301, 16 Colchester Avenue (Henry Marcus Lord House)
Office Telephone: 656-4311
Department Telephone: 656-2940
Office Hours: MWF 11:15 am – 12:05 am
MW 3:35 pm – 4:25 pm
T 9:30 am – 10:45 am and 2:00 pm – 3:15 pm
or by appointment

Text: Linear Algebra with Applications (Third Edition) by Otto Bretscher
Class Hours: MWF: 12:20 pm – 1:10 pm
Classroom: 205 Votey

Course Outline and Reading

<table>
<thead>
<tr>
<th>Topic</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Equations and Matrices</td>
<td>1.1 – 1.3</td>
</tr>
<tr>
<td>Linear Transformations</td>
<td>2.1 – 2.4</td>
</tr>
<tr>
<td>Subspaces of ( \mathbb{R}^n ) and Their Dimensions</td>
<td>3.1 – 3.4</td>
</tr>
<tr>
<td>Linear Spaces</td>
<td>4.1 – 4.3</td>
</tr>
<tr>
<td>Determinants</td>
<td>6.1 – 6.3</td>
</tr>
<tr>
<td>Eigenvalues and Eigenvectors</td>
<td>7.1 – 7.4</td>
</tr>
<tr>
<td>Orthogonality and the QR Factorization</td>
<td>5.1 – 5.2</td>
</tr>
<tr>
<td>Additional Topics (as time permits)</td>
<td>5.3, 5.5,7.5, 8.1, 8.2</td>
</tr>
</tbody>
</table>

Grading

There will be three midterm examinations, several problem assignments and a final examination. The problem assignments will count as one score, each midterm examination will count as one score and the final examination will count as two scores. The average of these six scores will determine your course grade. Although not required, Mathematica can be used advantageously in this course, so you may wish to install a current version of Mathematica on your personal computer. Each student in this course will be assigned a computer account for the College of Engineering and Mathematical Sciences Computer Facility.

Remarks

All students are expected to regulate their class attendance and behavior in a mature and responsible manner. In some situations, class participation and behavior could become a factor in the determination of your course grade.

Late problem assignments will be accepted ONLY IN EXCEPTIONAL CIRCUMSTANCES and in these cases a late penalty may be assessed.

Midterm Examination Dates: February 9 (F), March 9 (F) and April 18 (W).

Final Examination Date: Monday, May 7 at 3:30 p.m. in 205 Votey.

The last day to add or drop this course is Monday, January 29.

The last day to withdraw from this course is Friday, March 23.

The last day to exercise the pass/no pass option is Monday, January 29.

Students who are eligible for course accommodations due to special needs are responsible for notifying me if they wish to utilize such accommodations and for coordinating with the Office of Specialized Student Services in establishing the basis for and the implementation of the accommodations.

Students who miss an examination due to illness or any other special circumstance and who wish to schedule a make-up must advise me in a timely manner of the absence and the reason for it in order for the request for a make-up to be considered. Whenever possible, this information should be provided in advance of the absence.