MATH 436.001  Linear Algebra  Spring 2016

Class meets: Monday, Wednesday, Friday 12:20 - 1:10 in 322 Sackett
Instructor: Boris Kalinin
E-mail: kalinin@psu.edu
Office: 338 McAllister Building
Office phone: 814-865-5181
Office hours: Monday, Wednesday, Friday 1:25 - 2:15, and by appointment
Course page: http://www.personal.psu.edu/bvk102/436/436-1.html

Course description: In this proof oriented course we will develop the theory of abstract finite-dimensional vector spaces and linear transformations which act on them. Topics include eigenvalues and eigenvectors, inner products, and canonical form theorems for linear operators.

Prerequisite: Math 311W.


Attendance: You are expected to attend every class. If you miss a class, you are responsible for learning the material covered and knowing the announcements made in class.

Homework: Homework assignments will be given on a weekly basis. The solutions must be neatly and clearly written and logically structured. You may use without justification the statements proved in class, the results of previous homework assignments, and the statements from the sections of the book that we already covered. You may discuss homework problems with me and with other students, but the final write-up must be your own.

Exams: There will be two in class midterm exams and a two-hour comprehensive final exam. The dates of the midterm exams will be announced approximately two weeks in advance, and the final exam will be scheduled by the university during the final exam week, May 2-6. All students must plan to take exams at the scheduled times. If you are unable to attend a midterm you must notify me promptly: if there is a compelling reason for absence, your score will be replaced by the final exam score; otherwise, your score will be zero.

Grading Policy: The final score and letter grade will be calculated as follows:

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<thead>
<tr>
<th></th>
<th>%</th>
<th>A</th>
<th>at least 90%</th>
<th>B-</th>
<th>at least 77%</th>
</tr>
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<tbody>
<tr>
<td>Homework</td>
<td>30</td>
<td>A</td>
<td>at least 90%</td>
<td>B-</td>
<td>at least 77%</td>
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<tr>
<td>Exam 1</td>
<td>20</td>
<td>A-</td>
<td>at least 87%</td>
<td>C+</td>
<td>at least 74%</td>
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<tr>
<td>Exam 2</td>
<td>20</td>
<td>B+</td>
<td>at least 84%</td>
<td>C</td>
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<tr>
<td>Final Exam</td>
<td>30</td>
<td>B</td>
<td>at least 80%</td>
<td>D</td>
<td>at least 60%</td>
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Academic Integrity: Academic Integrity: All Penn State Policies regarding ethics and honorable behavior apply to this course. They can be found at http://science.psu.edu/current-students/Integrity/Policy.html

Students with disabilities: Penn State welcomes students with disabilities into the University's educational programs. For further information, please visit the Office for Disability Services web site: http://equity.psu.edu/ods.