Spring 2014
Instructor: Dr. Janice Kover
Phone: (330)499-9600, ext. 53409 (email will get a faster response than voicemail)
website: www.personal.kent.edu/~jkover
Virtual Office Hours: MONDAY: 1-2:30pm & 5-6pm; TUESDAY: 12-1:30pm; WEDNESDAY: 8:30-10:30am (I will hold
Wednesday hours in my office as well as virtual); THURSDAY: 9-10am
Other Virtual Hours can be made by appointment. To make an appointment, please email me with a few specific dates and
times that you are available to meet and I will try to work my schedule to meet with you. To meet during these hours please
go to the Virtual Meeting Room.

course.

Required: At least a scientific calculator. Graphing calculators are permitted and encouraged.

Course Description: This course will be a comprehensive introduction to linear algebra and matrix theory. We will tentatively
cover Chapters 1-6. See page two for detailed learning outcomes given by the math department.

Course Policies:

1. Course grades are determined by:
   15% - Videos Lessons YOU ARE GRADED BY THE ACCOMPANYING QUIZZES - these are NOT optional
   15% - May include Turn-In Assignments, Surveys, Short Quizzes, Special Assignments, or Q&A Forums
   70% - Tests (3 non-proctored tests 10% each, midterm 15% proctored, comprehensive Final Exam 25% proctored)
   Grading Scale: 90%-100% A; 80%-89% B; 70%-79% C; 60%-69% D; 0%-59% F (plus and minus grades will be assigned only
   in close cases)

2. Assignments are typically due on Mondays. Please stay alert to due dates. While videos will stay open for review, you will
   need to complete each week’s work on time or you will quickly find yourself too far behind to catch up. If there are extenuating
   circumstances email the professor immediately attaching the appropriately scanned documentation.

3. Homework may be collected at any time. That is, you may be asked to scan your homework and turn it in.

4. You will be given approximately a week to take a proctored exam. Make-up exams will only be given in extenuating
   circumstances and must have professional documentation for approval.

5. While there is no monitoring of how you conduct your weekly work it is assumed that you will give your full attention to
   your work when you view the videos, work on assignments or visit virtual office hours. Keep in mind you must answer the
   questions in the Video Lessons in Moodle.

6. Appropriate language is expected both written and verbal during virtual hours. (This includes abbreviations.)

7. Please keep in mind that while I will do the best to be present at every office hour (both live and virtual) but there are
times when events (including technical issues) stop this from occurring. I will do my best to email the class and let them
know when there are such occasions. Stark Tutoring hours and office hours will not be held if the Stark Campus has classes
canceled during the scheduled session.

8. The proctored final exam is required. Failure to show for the final exam may result in an F for the course.

   Academic Honesty: Use of the intellectual property of others without attributing it to them is considered a serious academic
   offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in
   dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on
   our campus.

   Students with Disabilities: University policy 3-01.3 requires that students with disabilities be provided reasonable accom-
   modations to ensure their equal access to course content. If you have a documented disability and require accommodations,
   please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments.
   Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-244-5047 or
   visit http://stark.kent.edu/student/resources/accessibility.cfm for more information on registration procedures).

   Withdrawal: If you are considering withdrawing from this course, please consult with a staff member in the Office of Student
   Services of your local campus. Withdrawal from a course can affect financial aid, student status, or progress within your
   major. For withdrawal deadlines, please refer to http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm.
Departmental Learning Outcomes for Linear Algebra with Applications, MATH-21001
21001 Linear Algebra with Applications (3)

**Knowledge**
The students should be able to define characteristic polynomial of a square matrix, and a nilpotent matrix.

**Comprehension**
Should be able to find the characteristic polynomial by computing a determinant, and compute the power of a square matrix.

**Application**
A typical application is to determine whether a square matrix of small size is nilpotent.

**Analysis**
Should be able to determine whether a 2x2, 3x3, 4x4, and a 5x5 matrix is nilpotent. Should know that, based on the characteristic polynomial of the matrix, what is the highest power of the matrix to compute to conclude.

**Synthesis**
Should get use to combine their skills from Linear Algebra to solve a more advanced problem.

**Evaluation**
Should be able to find the characteristic polynomial for any specific square matrix of small size, and for some more general matrices of special type.

**Class Activities**
To solve problems in class.

**Out of class Activities**
To submit every week home assignments. Honor students are also required to read material on minimal polynomial of matrices as well, and prove some general results.