MATH 2853, Elementary Linear Algebra, Summer 2017

Section: 01  Hours Credit: 3 hours

Room and Hours: Boyd 301, MW: 2:00 pm – 4:30 pm

Prerequisite: MATH 1634 with C or better

Instructor: Dr. Kwang Shin

Office Hours:  MW (11:30 am – 2:00 pm and 4:30 pm – 5:00 pm) or by appointment.

Office: 311 Boyd  Phone: 678-839-4138

E-mail: kshin@westga.edu  through your campus e-mail (myUWG).

Course Webpage: http://www.westga.edu/~kshin/2853/

Course Description: A concrete, applied approach to matrix theory and linear algebra. Topics include
matrices and their connection to systems of linear equations, Gauss-Jordan elimination, linear
transformations, eigenvalues, and diagonalization. The use of mathematical software is a component of
the course.

McDonald, Pearson Publishing. MyMathLab ID is shin87019.

Learning Outcomes: Upon successful completion of the course, the student will
1. Be able to express linear systems of equations in matrix form.
2. Be able to solve systems of linear equations using Gauss-Jordan elimination.
3. Be able to perform basic matrix operations and compute matrix inverses and determinants.
4. Be introduced to the basic properties of real vector spaces and subspaces including properties such as
linear independence, span, basis, rank.
5. Examine linear transformations and their applications.
6. Be able to compute eigenvalues and eigenvectors of a square matrix.

Hour Exams:  Exam 1 (Wed, June 14), Exam 2 (Wed, June 28), Exam 3 (Mon, June 17).

Final Exam:  Saturday, July 22, 3:00 pm -- 5:00 pm. The final exam will be cumulative.

Homework: Homework will be assigned every day and posted at the course website until MyMathLab is
set up. Homework will be collected at the beginning of the next class for grade until MyMathLab is set up.
Doing homework in timely fashion is essential for the success in this course. Partial credit will be
considered for incomplete work. However, late submission will receive zero point. The total homework
score will be converted to a 70 point scale at the end of semester.

Quizzes: There will be a quiz on almost every Friday, consisting of problems that are almost identical to
homework problems. Each quiz will be 10 points and two lowest scores will be dropped. If needed, the
total quiz score will be converted to an 80 point scale at the end of semester.
Grade Scale: 3 hour exams 300 points (100 points each)
Quizzes 80 points
Homework 70 points
Final 200 points

Total 650 points


June 23 is the last day to withdraw from a class with a grade of W.

Attendance and Pop-up Quizzes: Attendance is required and expected. Students are responsible for all material covered in class and all announcements made. An undetermined number of pop-up quizzes may be given for extra points. Such a quiz will consist of one problem, discussed during the same class. **It will count as absent if you are not present when the attendance is checked. Attendance can be used for bonus points at the end.**

Make-up: There will be no make-up quiz. In general, make-up exams will **not** be given after the scheduled exam date. There will be no make-up final except when a conflict with other finals occurs. If a conflict occurs to you, please inform the instructor at least two weeks in advance. Make-up hour exams will be granted for official university activities if the student notifies the instructor at least a week in advance and for well-documented illness.

Classroom Behavior: You are expected not to disturb your classmate's learning. No phone or computer use during class without instructor’s permission.

Also, please carefully review the following information at http://tinyurl.com/UWGSyllabusPolicies or http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf. It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.