Prerequisite: MATH 227 or permission of instructor.

Professor: Dr. David K. Neal  TCCW 315  745-6213  david.neal@wku.edu

Office Hrs:  MWF 4:30 – 5:30; TR 1:00 – 2:15; or by appointment.

Text (optional):  *Elementary Linear Algebra* – Fifth Edition, by Larson/Edwards/Falvo.  (Not required; recommended as a reference only.)

Calculator: Recommended calculators are the TI–83+, TI–84+, or TI–89. Many calculations can be done with the built-in functions on these machines.

Students are not allowed to use their calculators to view stored “formula sheets” during tests. Doing so will result in an F in the course, dismissal from the class, and documentation on your transcript.

Course Description: MATH 307 is an introduction to the theories, methods of computation, and applications of Linear Algebra. The course is required of all students who major or minor in mathematics.

The course covers standard material on matrices, systems of equations, $n$-dimensional vectors, vector spaces, linear transformations, inner product spaces, eigenvalues, and eigenvectors. Supplemental material and *Mathematica* computer assignments may be included.

Homework: Exercises will be assigned daily with some problems designated to be turned in for a grade. On problems that are to be turned in, students are expected to do their own work; plagiarism and allowing plagiarism are not allowed and will result in a grade of 0 for the assignment. Late homework will never be accepted.

Tests: Each test will be based on class lectures and assigned homework. Details of the tests will be outlined several days in advance. The exams will be closed-book with no formula sheets allowed. A certain portion of each exam may be so that *no calculators are allowed.*

Grades will be dependent on class average and attendance as follows:

Assignments: 20%  Three Tests: 20% each  Final Exam: 20%

- **A** – at least a 95% average and no more than one absence
- **B** – at least an 85% average and no more than one absence
- **C** – at least a 75% average and no more than one absence
- **F** – Below a 75% average, or two or more absences

**Test 1:** Mon Sep 24  **Test 2:** Mon Oct 22  **Test 3:** Mon Nov 19

**Final Exam:** Wednesday December 12, 3:45 – 5:45 PM.
Make-Up Policy

Students are expected to take each test on the day that it is scheduled. Students will not be allowed to take tests early or late. No make-ups will be given and a missed test will result in a grade of 0 for that test. There are no exceptions to this policy.

Attendance Policy

Registration in this course obligates the student to be regular and punctual in class attendance. If you wish to earn three credits, then you must attend class.

Withdrawal Date

October 16, 2007 is the last day to withdraw from the course with a grade of W or to change enrollment from credit to audit.

Disability Services

Students with disabilities who require accommodations, academic adjustments, and/or auxiliary aids or services for this course must contact the Office for Student Disability Services in DUC A201. The OFSDS telephone number is 745-5004 (or 745-3030 TTY). Please do not request accommodations directly from the professor without a letter of accommodation from the Office for Student Disability Services.

Please feel free to see me if you ever need any other help with the class or if you’d like to discuss any other matter. Good luck in the course!