Instructor:  Dr. Brian Heck  
Office:  106-E Peltier  
Phone:  448-4383  
Email:  brian.heck@nicholls.edu  
Webpage:  http://math.nicholls.edu/heck/home.html

My office hours are 9:00 am – 12:00 pm M, W, F, 4:00 – 5:00 pm W, and 4:00 – 6:00 pm TH. Please contact me (phone, email, or in person) during these times if you have any questions. If you need assistance at a different time, let me know and we’ll work something out.

Prerequisite: Math 358  
Text: Linear Algebra: A Pure & Applied First Course by Goodaire (Prentice Hall)

Course Description (catalog): The real number system, vectors, matrices, and linear equations, determinants, polynomials and complex numbers, vector spaces and linear transformations.

Course Description (instructor): Linear Algebra is really about vector spaces. Chapter 4 (Vector Spaces) therefore comprises the thrust of the course. (Is it a good thing or a bad thing that I love this topic?) To prepare you for this abstract notion, we will spend the first few weeks on vectors and matrices. You have surely run across matrices before - perhaps in College Algebra, Calculus III, or Foundations. We will begin this course by further exploring their properties and utility. This material is fairly elementary, but without a solid grasp of it, the later chapters are unnecessarily difficult. After we cover the beloved vector spaces, we will study linear transformations and orthogonality. Further topics will be covered if we have time.

Student Learning Outcomes: A student who completes this course will be able to:  
- Explore and describe properties of Euclidean space.  
- Solve systems of equations.  
- Perform elementary row operations on matrices.  
- Perform algebraic operations on matrices.  
- Find the determinant of a matrix.  
- Find the inverse of a nonsingular matrix.  
- Define a vector space.  
- Determine whether a set is a vector space or not.
Grading Policy: We will have two exams (a mid-term and a final) and several problem sets throughout the semester. Both exams will be comprehensive and neither is optional. One or both of the exams might be take-home. Each component (problem sets and exams) will count for 50% of your course grade. At the conclusion of the semester, I will assign letter grades based on the usual 10% grading scale (A: 90-100%, B: 80-89%, C: 70-79%, etc). I will not accept late problem sets unless there are VERY unusual circumstances, and make-up exams will only be administered if the student provides a valid excuse. The instructor decides which excuses are valid. Academic dishonesty (i.e. cheating, plagiarism, etc.) will not be tolerated. Sanctions for such behavior are outlined in the Code of Student Conduct (Section 1.9).

Attendance: I will not include attendance as part of your course grade. I am not your mother or your parole officer, and this is not high school. I do, however, expect you to attend class everyday. You are responsible for all material covered in class.

Important Dates:  
Mid-Term Exam – Wednesday, October 8, 2008  
‘W’ Day – Friday, October 24, 2008  
Final Exam – Wednesday, December 3, 2008

Academic Grievances: The proper procedure for filing grade appeals or grievances related to academic matters is listed in Section 5 of the Code of Student Conduct and at the following link: http://www.nicholls.edu/documents/student_life/code_of_conduct.pdf.

Continued Learning following an Extreme Emergency: In order to make continued learning possible following an extreme emergency, students are responsible for:

- reading regular emergency notifications on the NSU website;
- knowing how to use and access Blackboard (or university designated electronic delivery system);
- being familiar with emergency guidelines;
- evacuating textbooks and other course materials;
- knowing their Blackboard (or designated system) student login and password;
• contacting faculty regarding their intentions for completing the course.

faculty are responsible for:
• their development in the use of the Blackboard (or designated) software;
• having a plan for continuing their courses using only Blackboard and email;
• continuing their course in whatever way suits the completion of the course best, and being creative in the continuation of these courses;
• making adjustments or compensations to a student’s progress in special programs with labs, clinical sequences or the like only in the immediate semester following the emergency.

Disability: If you have a documented disability that requires assistance, you will need to register with the Office of Disability Services for coordination of your academic accommodations. The Office of Disability Services is located in Peltier Hall, Room 100-A. The phone number is (985) 448-4430 (TDD 449-7002).