Introductory Linear Algebra Syllabus--P. Staley Fall 2011

- **Instructor: Patrick Staley**
  - Office: 390D
  - Office hours: 1:30-2:20PM Mon-Wed-Fri; 12:00-12:50PM Tue-Thur
  - Website: www.staley-classes.org
  - Email: patrick@mr-ideahamster.com
  - Telephone: 619-421-6700, ext 5521
- **Textbook: Elementary Linear Algebra Sixth Edition, by Ron Larson and David Falvo**
  - Textbook on Amazon
- **Prerequisite: Second Semester Calculus--Math 251 at SWC**
- **Class Meetings 9:30-10:45AM Tuesdays and Thursdays in room 391**
- **Calculating Tools -- Excel, TI Graphing Calculators, Other?**
  - Students will use a TI graphing calculator to solve systems of linear equations. Classroom demonstrations may use the Excel spreadsheet program and perhaps Matlab or R. Excel is available on all the student computers in the School of Math Science and Engineering. Exams will require a scientific calculator.
- **Course Description**
  - An introductory course in linear algebra. The course is intended to encompass mathematical formalism, applications, and geometric intuition. Topics include:

    Systems of Linear Equations
    Matrices
    Determinants
    Vector Spaces
    Inner Product Spaces
    Linear Transformations
    Eigenvalues and Eigenvectors

- **Attendance Policy**
  - Students are expected to attend all lectures. If a student misses excessive class time, he/she may be dropped. Attendance is taken with a seating chart. All absences are the same, i.e. there are no "excused" absences.
- **Electronic Devices Policy**
  - During lecture and exams please turn off all phones, pagers, music devices, tape recorders, etc. If you need to have your cell phone on during class time please let me know. I will see what I can do to get you into a different class.
- **Special Accommodations**
  - Southwestern College recommends that students with disabilities discuss academic accommodations with their professors during the first two weeks of class. An alternate form of this syllabus is available upon request.
- **Homework**
  - There will be homework due for every chapter. Repeated failure to complete homework assignments will be identified as non-performance. The assigned homework problems will be posted on the class website.
- **Grading**
  - Grade Computation
    - Your final grade will be a composite of four or five exams and a Final Exam. The final exam is comprehensive. The Final Exam is weighted as one and one-half regular exams. Letter grades of A,B,C,D, or F are assigned to each exam and the Final Exam. These are then incorporated into the final grade based on the weight assignments A=4, B=3, C=2, D=1, and F=0. There will be no make up tests. You should be able to access your current aggregate grade through the class website.
  - Example
    - Assume chapter test grades of C,B,D,B, and final exam grade of A. Then Class Grade = (2+3+1+3+4*1.5)/5.5 = 2.73 = B. With a final exam grade of B instead of A, the class Grade would be (2+3+1+3+3*1.5)/5.5 = 2.45 = C. Note that for the class grade A is 3.5 to 4.0, B is 2.5 to 3.5, C is 1.5 to 2.5, D is 1. to 1.5, and F is 0 to .99.
  - Exam Policies
    - No make-up tests.
    - Knowing the correct answer to an exam question is insufficient—the correct answer must be written on the answer sheet.
    - Exam answers that confuse the grader will be marked wrong.
  - Grade Notification
    - The class website, www.staley-classes.org, has the most current grade sheet. The grade sheet is password protected. You can access the grade sheet at any time after the first exam has been scored.
- **Class Website www.staley-classes.org**
  - www.staley-classes.org contains relevant information for this class including: homework assignments, current notes to students, information on exams, an updated syllabus, the current grade sheet (password protected), exam practice problems, practice tests, answers to practice tests,

and other relevant information. So that you receive website update notifications please send an email message using the "get it" link under the appropriate "Notification" line. This will put you on the email notification list for the class.

- **Behavior Policies**
  - A student may be dropped from the class for excessive absences.
    - Excuses: There are no "excused" absences in this class. All absences are treated equally.
    - If you are going to be absent on an exam day make prior arrangements with the teacher. There are no makeup exams for no-shows on exam day.
    - Students who miss three classes are subject to being dropped.
  - A student may be excluded from the class for disruptive behavior.
  - This class adheres to all misconduct policies as stated in the current Southwestern College catalogue. Pages from Catalog2009-2010Updated
  - Cheating
    - Behavior indicative of cheating will be handled by an oral exam. behavior example
    - The oral exam is an investigation of the rational for the "behavior indicative of cheating". oral exam example
    - The outcome of this process will be one of: F grade on the exam, F grade for the semester, student drops the class, or reinstatement of the score.
    - This penalty also applies to any accomplice. So make sure that when you help someone they can defend their work.
- **Tutorial Services**
  - The MESA Center, located in room 396, provides free tutoring for this course.
  - The Academic Success Center in room 420 also offers tutoring for linear algebra.
  - Only a few of the tutors are qualified to tutor for this class. The names of the linear algebra qualified tutors should be known by the second week of class.
- **Projected Schedule**
  - week 1--Chapter 1
    week 2--Chapter 2
    week 3-- "
    week 4--Chapter 3
    week 5-- "
    week 6--Chapter 4
    week 7-- "
    week 8-- "
    week 9--Chapter 5

    week 10--Chapter 5
    week 11--Chapter 6
    week 12-- "
    week 13-- "
    week 14--Chapter 7
    week 15-- "
    week 16-- "
    week 17--Review
    week 18--Final Exam
- **Final Exam**
  - The final exam is comprehensive.
  - Date/time: Thursday December 15 8-10AM room 391
- **Initial Assignment**
  - Buy the Textbook
  - Visit the Class Website Staley Classes Website
  - Sign up for the Notification Email List subscribe request for Linear Algebra
  - Read Section 1.1 and do assigned problems for that section.