EK 102, Section A1

Introduction to Linear Algebra for Engineers

FALL 2010 INFO SHEET

CLASS: W 10-12, **PHO** 203: I will pass out an attendance signup sheet, it is your responsibility to sign it yourself (only for yourself).

DISCUSSION: There are 4 discussion sections,

A2, PRB 146, M 11-12
A3, MCS B29, T 2-3
A5, SED 206, Th 3-4
A6, GCB 203, F 9-10

TEXT: Introduction to Linear Algebra with Applications, DeFranza and Gagliardi, 1st edition, McGraw Hill, 2009.

PROFESSOR: Glynn Holt rgholt@bu
110 Cummington, Rm 417 353-9594 office
Office hours T, 2-4:00, or by appointment

TF's: Chris Bedell, bedellch@bu.edu

GRADING:

35%	(Homework and Quizzes)
35%	(In-Class Exams)
25%	Final Exam
5%	Class attendance/participation

HOMEWORK: Homework assignments are given out as I generate them. You will have roughly one per week. They are due at the BEGINNING of class on the due date listed. LATE HOMEWORK WILL NOT BE ACCEPTED unless circumstances merit the exception.

EXAMS: I anticipate roughly 5-10 quizzes. Quizzes will be short, 15 minute length, typically at the beginning of a class, and likely only 1 problem. The 2 hourly exams will cover a specific section of the course material. These will be evenly spaced during the semester. They will be thorough and challenging. "Make-up" exams will rarely be given, and never in the case of

prior knowledge of a time conflict (you must arrange to take the test before you are away). A "make-up" exam will be different from the exam given in the class, and will likely be oral.

The final exam will be comprehensive., and scheduled by the registrar. Study. The final exam is TBD. DO NOT UNDER ANY CIRCUMSTANCE SCHEDULE TRIPS OR FLIGHTS HOME UNTIL AFTER THE OFFICIAL UNIVERSITY EXAM PERIOD. Study.

DROP DATES: Pay attention to the University's schedule of drop dates. You cannot drop this course after the last "W" date because of an impending low grade – you will receive your current grade if you drop after the official W date. "Incomplete" grades are reserved for the most extreme of circumstances, and are a NEGOTIATED CONTRACT between the student and myself.

PREREQUISITES: EK 127.

COLLABORATION: Homework: Homework is the only collaborative activity in EK102. That being said, you should do your own work, and turn in your own work. However, you are encouraged to consult and collaborate with classmates on general concepts and even specific approaches. (I believe recent research refers to this as "horizontal learning").

Exams and quizzes: Done individually.

EK 102, Section A1, FALL 2010 Syllabus by class

Class	DATES	LECTURE TOPIC
1	9/8	Linear equations and matrices, Gauss-Jordan
2	9/15	Inverses, LU factorization
3	9/22	Determinants
4	9/20	Linear independence and combinations
5	9/22	Vector spaces and subspaces
6	9/29	Change of basis
7	10/6	Exam 1
8	10/13	Linear transformations
9	10/20	Applications of linear transformations
10	10/27	The eigenvalue problem
11	11/3	Eigenvalue applications
12	11/10	Singular value decomposition
13	11/17	Exam 2
14	12/1	Numerical problems
15	12/8	Working with real data