Math 370 Advanced Math for Engineers, Fall 2012

Course
Math 370 - 02 meets MWF 12:00-12:50 in RH 31
Course web page http://mathcs.slu.edu/~clair/admath

Instructor
Dr. Bryan Clair
bryan@slu.edu
Ritter Hall 110, 977-3043

Office Hours
M 1-2, Th 10:30-11:30, F 10-11, or by appointment.
Stop by my office anytime, and if I’m around I can usually help you.

Textbook

Homework
Homework will be due weekly, usually on Fridays. Your work should be neat and legible. Cooperation is encouraged, but write up results separately. Late homework is always accepted for 5/10 but you won’t get any comments.

Exams
I give makeup exams only for severe and documented reasons.

Exam 1  Friday, October 5
Exam 2  Friday, November 9
Final Exam  Wednesday, Dec 12, 12:00-1:50

In addition, there will be a few take home quizzes.

Grading
Grading is on a straight scale (uncurved), with 90%, 80%, 70%, 60% guaranteeing at least A-, B-, C-, D respectively. Grading is weighted as follows:

   Homework: 15%
   Take Home Quizzes: 10%
   Exam 1: 20%
   Exam 2: 20%
   Final Exam: 35%

Honesty
Students are expected to be honest in their academic work, as per the Honesty Policy of the College of Arts & Sciences. Plagiarism, cheating and dishonesty will be reported to the dean and may result in probation, expulsion, or worse.

Schedule
The amounts of time are only approximate.

   Vectors and matrices. Ch 6, 7.  4 weeks.
   Determinants and eigensystems. Ch 8, 9.  2 weeks.
   Fourier series and the heat equation. Ch 13, 17.  2 weeks.
   Vector differential calculus. Ch 11.  2 weeks.
   Vector integral calculus. Ch 12.  4 weeks.

   • Monday, September 3: No class, Labor Day.
   • Monday, October 22: No class, Fall break.
   • Wednesday, November 21 and Friday, November 23: No class, Thanksgiving.