

Math 370 Advanced Math for Engineers, Spring 2012

- Course** Math 370 - 02 meets MWF 3:10-4:00 in RH 316
Course web page <http://mathcs.slu.edu/~clair/admath>
- Instructor** Dr. Bryan Clair
bryan@slu.edu
Ritter Hall 110, 977-3043
- Office Hours** Tu 10:30-11:30, W 1-2, F 10-11, or by appointment. Stop by my office anytime, and if I'm around I can usually help you.
- Textbook** *Advanced Engineering Mathematics*, 7ed, O'Neil.
- 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, February 24
Exam 2 Wednesday, April 4
Final Exam Friday, May 11, 2:00-3:50
- In addition, there will be a few (3-4) 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.
- March 12-16, Spring Break
 - April 6-9 Easter Break, no class Friday the 6th or Monday the 9th.
 - Last day of class is Monday, May 7.