Kent Pearce

Office: MA 201-B
Phone: 742-2566

E-Mail: *pearce@math.ttu.edu*
HomePage: *www.math.ttu.edu/~pearce*
  Syllabus: 3322-20071*(003)-syl.pdf*
  Schedule: 3322-20071*(003)-cal.pdf*
  Homework: 3322-20071*(003)-hwk.pdf*

Office Hours: MW 1:00 - 3:00 or
                By Appointment

Higher Mathematics for Engineering Technology

MATH 3322-001

<u>Text</u>
  Kuhfittig, Peter

  Technical Calculus with Analytical Geometery
  4th Ed., Thompson, Brooks/Cole

<u>Lecture</u>
  Room: MA 109
  Time: MWF 9:00 - 9:50

Learning Objectives

Learning Outcomes: The students will develop the necessary skills from pre-calculus, calculus, and differential equations required to be successful in their engineering technology programs. Students will understand infinite series and differential equations. In particular, students will:

1. Understand the concept of multiple integration and learn to solve real-world problems involving multiple integrals.
2. Understand sequences gain proficiency in determining convergence.
3. Understand series gain proficiency in determining convergence.
4. Solve first order and higher order differential equations.
5. Understand and become proficient using Laplace transforms.

Assessment of the learning outcomes

Assessment will be achieved through one or more activities, non-graded and graded, such as: class attendance, discussion section attendance, class discussion, board work, short quizzes, selected homework, examinations and other optional activities deemed appropriate by the instructor. Class grades will be assigned according to the following rubric:

<u>Grading</u>

Examinations:
Mid-Term Exams	(Sep 07, Sep 21, Oct 17, Nov 4, Nov 19 – Drop Lowest)	400 Pts.
Final Exam	(Dec 10, 7:30 am)	200 Pts.

Home Work
HW #00 - HW #12	(Due two class periods after each exam)	100 Pts.

Total Grade Point Base   700 Pts.

<u>Scale</u>
A...100% - 90%   B...89% - 80%   C...79% - 70%   D...69% - 60%   F...59% - 0%

Critical Dates

Friday, Oct 12	Fall Break, No Class
Tuesday, Oct 30	Last Day to Drop a Class (Automatic W)
Monday, Dec 10	Final Exam

Notices

Academic Integrity (Extracted from OP 34.12)

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

Scholastic dishonesty includes, but it not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

Observance of Religious Holiday (Extracted from OP 34.19)

A student who intends to observe a religious holy day should make that intention known to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

Accommodation for Students with Disabilities (Extracted from OP 34.22)

Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor (at MA 201-B) as soon as possible to make the necessary arrangements. Students should present appropriate verification from Student Disability Services (AccessTECH). No requirement exists that accommodations be made prior to completion of this approved university process.