Math 1325 --- Calculus II

I. Course Information
   A. Spring, 20012.
   B. Math 1325-1, Calculus II.
   C. MWF, 10 – 10:50 a.m., McF 108.
   D. Instructor: Petty
   E. Phone: 531-4884
   F. E-mail: mpetty@txwes.edu
   G. Office: McF 110C
   H. Office hours: given in class and posted on office door (MWF: 11-2; TTh: 9:30-1:30 [if no FP meeting]).
   J. Prerequisites and course description: Math 1324 or equivalent; continuation of Calculus I (see University Catalog).

II. Course Topics
   A. Review and develop a variety of functions (logs, exponentials, inverse trig functions, hyperbolic trig functions).
   B. Develop new techniques of integration.
   C. Define and compute improper integrals and indeterminate limits.
   D. Define sequences and series and develop tools for using them.
   E. Review some analytic geometry and introduce polar coordinates.
   F. Use polar coordinates to simplify algebra, geometry, and calculus for some classes of functions.

III. Course Goals
   A. To master the concepts and tools described.
   B. To understand better the nature and power of mathematics in general and Calculus in particular.
   C. Apply the principles and tools to solve problems in the sciences.
   D. To compute, to comprehend, to reason, to think.
   E. For success in this class, the following requirements should be met or exceeded.
      1. Have already satisfied all prerequisites.
      2. Read text material before class. Bring book to class & follow.
      3. Attend classes; take notes; don’t leave early; avoid t. & t., etc.
      4. Review all notes and text material after classes.
      5. Do homework exercises and take practice quizzes.
      6. Spend minimum of 9 hours per week outside of classes, with no more than 2 hours counting for any day.
      7. Seek help without delay in areas not understood (consult text, classmates, math tutors in ARC, study groups, other tutors, the professor, computer software, videotapes, etc.)
      8. Visit the professor whenever a score of less than 70% is earned.

IV. Methods of Instruction
   A. See the list under “For success” above.
   B. Lecture, discussion, individual help, homework, quizzes, exams.
V. Course Requirements and Grading
   A. Homework: do as many of the odd problems as necessary to master the
tools and concepts and prepare for the quizzes.
   B. A 15-minute quiz will be given each week at the first of the period. The
quiz questions will come from the odd problems of whichever sections
have been completed since the previous quiz.
   C. No makeup quizzes will be given since several can be dropped.
   D. Exams: three full-period exams and the final exam.
   E. Percentages of grade: 50% (quiz total---total of 10 highest quizzes), 10%
(Exam 1), 10% (Exam 2), 10% (Exam 3), 20% (final exam).
   F. Course letter grade: A (90-100), B (80-89), C (70-79), D (60-69), F (0-59).

VI. Absence Policy: See the University Catalog. Read again the “for success in
this class” list above.

VII. Texas Wesleyan Policies
   A. Students should read the current University Catalog and Student
Handbook to become familiar with University policies. These policies
include but are not limited to grade appeal, sexual harassment, student
access to records, and others; policies specified in the current catalog are
applicable unless otherwise stated in this syllabus.
   B. Texas Wesleyan adheres to a disability policy which is in keeping with
relevant federal law. The University will provide appropriate
accommodation as determined by the Director of the Counseling Center.
Students must notify instructors of any permanent or temporary
disabilities and must provide documentation regarding those disabilities
prior to the granting of an accommodation. For assistance, students
should consult with the Counseling Center.
   C. Note: Course syllabi are intended to provide students with basic
information concerning the course. The syllabus can be viewed as a
“blueprint” for the course. Changes in the syllabus can be made, and
students will be informed of any substantive changes concerning exams,
grading policies, attendance policies, and assignments.
   D. You may replace a grade earned at Texas Wesleyan only by repeating the
course at Texas Wesleyan. Any course that you take at another institution
may be repeated at Texas Wesleyan. Be aware that the most recent grade
replaces the original class regardless if it is higher or lower.