

Professor: Dr. Talitha Washington

Office: KC 318 phone: 488-2213 e-mail: tw65@evansville.edu

Office hours: Monday & Friday 9-10, Tuesday & Thursday 9:30-12:30, and Wednesday 8-10

Texts: *Calculus, Early Transcendentals*, Fifth Edition, James Stewart
College Algebra and Trigonometry, Dwyer and Gruenwald

Catalog Description: Math 211 Calculus I with Precalculus Review (5) Covers limits and continuity, differentiation, applications of differentiation and integration. Review of precalculus topics integrated with calculus content. Background should include eight semesters of high school mathematics, including four semesters of algebra, two semesters of geometry and at least 12 weeks of trigonometry. Prerequisite: Grade of C or better in Mathematics 105 or an acceptable score on a placement exam. Credit not given for more than one of mathematics 134, 211 or 221. Fall, spring.

Course Learning Objectives: Math 211 is the first course in a three-course sequence (Math 211, 222, 323) of elementary calculus and analytic geometry. We will be covering most of chapters 1-5 in Stewart and most of chapters 7-8 in Dwyer/Gruenwald. The major topics to be covered are: Functions and Models; Trigonometric Functions; Trigonometric Identities and Equations; Limits and Derivatives; Differentiation Rules; Applications of Differentiation; Integrals. As a student in this course, you will be expected to acquire some computational facility with the topics introduced in addition to a basic understanding of the theory involved and an enlarged understanding of the need for precise language.

General Education: Math 211 has been designated as a general education mathematics course. As such, in addition to the mathematical content, emphasis will be placed on problem solving, applications to real-world problems, logical reasoning, and the correct use of the language of mathematics.

Methods of Instruction: Typical class periods will include a discussion of homework problems followed by an introduction of new material, although not always in that order. You are expected to read the text and complete all assigned homework. The software package *DERIVE* will be used as a tool.

Grading: As a guideline, the following components will contribute to the final grade:

- Four Tests – 400 points
- Comprehensive Final Exam – 200 points
- Quizzes – 100 points
- Homework – 150 points
- Group Project – 50 points
- Extra Credit for putting and explaining a problem on the board – 2 points each

The lowest exam score will be replaced by the grade on the final. Your grade will be no worse than it would be if computed using the following scale: A: 90%-100%; B: 80%-89%; C: 70%-79%; D: 60%-69%. Other factors which may (positively) affect your course grade are: the quality of your final exam, attendance, and your interest in the course.

Course requirements and policies:

a. Calculators: You may use a graphing calculator on all exams, though the problems will be written in such a way that a person can get full credit without any calculator. If you don't already have one, consider purchasing a TI-83+ or TI-84+. Calculators with symbolic algebra capability (e.g. TI-89 or TI-92) will not be allowed during exams or quizzes.

b. Attendance: You are expected to attend class on time every day. However, if you miss a day, it is up to **you** (not me, or your classmates) to catch up and learn what you have missed.

c. Quizzes: The quiz problems will be similar to homework problems and will take 10-15 minutes of class time. There are **NO** make-ups for quizzes. At the end of the semester, the 2 lowest quiz scores of each student will be dropped.

d. Homework: These will be collected at the beginning of the lecture. Your written work is expected to be neat, accurate, and contain explanations using full sentences and Standard English. Late homework will **NOT** be accepted under any circumstances. At the end of the semester, the 4 lowest homework scores of each student will be dropped.

e. Group Project: The focus will be to investigate applications of mathematics and emphasizes writing skills (complete sentences, clearly stated goals and explanations, etc). Hence, the report must be typed and double-spaced. You may neatly hand write any formulas or graphs if you wish. Write your paper in paragraph form, i.e., do **NOT** enumerate! You may work in groups of 2-3 people and submit one project per group. Late papers will **NOT** be accepted under any circumstances.

f. Make-ups: Make-up exams will be given only in extreme circumstances, and only if I am aware of the circumstances prior to the exam. In particular, make-ups will never be given to accommodate travel plans.

g. Honor Code: It is expected that students are familiar with and will comply with the terms of the University's Academic Honor Code. Collaboration on homework is allowed and encouraged, but giving or receiving help of any kind on exams and quizzes is strictly prohibited.

h. Advice & Expectations:

- Spend at least **8 hours** each week outside of class working on the problems. Read the book!
- Work on homework each day and seek assistance when you are confused. All of the math you learn is from the problems that you practice.
- Prior to seeking assistance, you should make a serious attempt to complete the recommended problems and should be prepared to discuss the approach taken. You should be prepared with specific, well-articulated questions.
- Keep all notes, assignments, handouts, **CORRECTED** tests, etc. in a 3-ring binder. This will help as you prepare for the final.

i. Accessibility: Please let me know immediately if you have a learning or physical disability requiring accommodation. For more information, contact the Office of Counseling and Health Education at 488-2663.

Schedule

Week #	Monday	Tuesday	Thursday	Friday
1			8/25/05 Introduction	8/26/05 7.1 (DG)
2	8/29/05 7.2	8/30/05 7.3	9/1/05 7.4, Quiz	9/2/05 7.5
3	9/5/05 7.6	9/6/05 8.1	9/8/05 8.3, Quiz	9/9/05 8.4
4	9/12/05 Review	9/13/05 Exam 1	9/15/05 1.1, 1.2 (S)	9/16/05 1.3
5	9/19/05 1.5	9/20/05 1.6	9/22/05 2.2, Quiz	9/23/05 2.3
6	9/26/05 2.5	9/27/05 2.6	9/29/05 2.1, 2.7, Quiz	9/30/05 2.8
7	10/3/05 Review	10/4/05 Exam 2	10/6/05 2.9, Group Project	10/7/05 3.1
8	10/10/05 Fall	Break	10/13/05 3.2	10/14/05 3.3
9	10/17/05 3.4	10/18/05 3.5, Quiz	10/20/05 3.6, Group Project Due	10/21/05 3.7
10	10/24/05 3.8	10/25/05 Review	10/27/05 Exam 3	10/28/05 3.10
11	10/31/05 3.11	11/1/05 4.1	11/3/05 4.2, Quiz	11/4/05 4.3
12	11/7/05 4.4	11/8/05 4.5	11/10/05 4.5, 4.7, Quiz	11/11/05 4.7
13	11/14/05 4.9	11/15/05 Review	11/17/05 Exam 4	11/18/05 4.10
14	11/21/05 5.1	11/22/05 5.2, Quiz	11/24/05 Thanksgiving	11/25/05 Break
15	11/28/05 5.2	11/29/05 5.3	12/1/05 5.4, Quiz	12/2/05 5.5
16	12/5/05 5.5	12/6/05 Review		12/9/05 Final Exam 8 AM

Please note that this schedule may vary according to our progress in class.