

Instructor: Dr. Talitha Washington
Contact Info: Office: KC 318; Phone: 488-2213; Email: tw65@evansville.edu
Office Hours: MWF 10-12, 1-2:20
Required Texts: *Brief Calculus: An Applied Approach*, 7th Ed., Larson and Edwards
Prerequisite: Math 105 or Math Placement

Course Description: Treats polynomial, exponential and logarithmic functions, their derivatives and integrals. An introduction to the calculus of several variables and applications to the natural and social sciences. Recommended for students who plan to take only one semester of calculus not requiring trigonometry. Not open to mathematics majors or minors.

Course Learning Objectives: It is expected that students will:

- gain factual knowledge about functions, derivatives, and integrals
- develop critical thinking and problem solving skills
- learn fundamental principles and theory of calculus
- learn how to evaluate certain categories of definite and indefinite integrals
- learn to apply course material to enhance understanding in fields of business, engineering and science
- develop specific skills and competencies in mathematics through oral and written work

Methods of Instruction: The method of instruction for most classes will be a lecture/discussion. Students are encouraged to participate in class by asking questions, contributing to discussions, and working problems. Outside of class, students are expected to read the text and complete all assigned homework.

Grading: The weights in determining your final grade are as follows:

- 16% – Quizzes, Fridays throughout the semester
- 6% – Group Project
- 16% – Exam 1, Friday, September 21
- 16% – Exam 2, Friday, October 26
- 16% – Exam 3, Friday, November 30
- 30% – Final Exam
 - Section 01 & 02: Friday, December 14 at 10:15 a.m.
 - The Final Exam time may change to the final exam time in the *Schedule of Classes* if space is unavailable.

The usual course grades apply. (ex: $80 \leq x < 83 \rightarrow B^-$, $83 \leq x < 87 \rightarrow B$, $87 \leq x < 90 \rightarrow B^+$) Changes to the Exam dates will be announced in class.

Course requirements and policies:

a. Calculators and Computers: You may use a calculator on all exams and quizzes. Computers and 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. 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. Homework: The importance of homework cannot be over-stressed: one can only learn mathematics by doing many exercises! Doing homework and writing up the solutions allows you to test yourself to see whether you really understand the material. This also protects you from being "surprised" on the exams. Many questions on the quizzes and exams will be strikingly similar to those given in the homework.

d. Quizzes: A quiz will be given every Friday, except for exam weeks. NO make up quizzes will be given. At the end of the semester, your lowest quiz score will be dropped.

e. Make-ups: Assignments that are to be completed outside of class will **not** be accepted late for any reason. Make-up exams or quizzes will be given only in extreme circumstances that are documented university approved excused absences, 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.

f. Honor Code: It is expected that you are familiar with and will comply with the terms of the University's Academic Honor Code. Giving or receiving any type of aid on exams or quizzes is strictly prohibited, and will result in an F. Please note also that the computers are to be used during class only when you've been instructed to do so. In particular, there is to be no game playing, web browsing, online chatting, emailing, etc.

g. 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

Precalculus Review (0.1-0.5)
Functions, Graphs, and Limits (1.1-1.5)
Continuity (1.6)
Differentiation (2.1-2.6)
Applications of Differentiation (3.1-3.4)
Exponential and Logarithmic Functions (4.1-4.6)
Integration (5.1-5.3)
Applications of Integration (5.4-5.5)
Functions of Several Variables (7.1, 7.3-7.5)

Have a great semester!