Professor: Dr. Talitha M. Washington
Contact Info: Office: KC 318; Phone: 488-2213; E-mail: tw65@evansville.edu
Office hours: Mon 9-10, 12-1; Tue 9-11; Wed 9-10; Thu 9-10; Fri 9-1
Text: Calculus - Early Transcendentals, Sixth Edition, by Stewart
Course Website: Blackboard, http://acebb.evansville.edu

Course Description: MATH 222 Calculus II (4): Covers review of algebra and trigonometry, limits and continuity, differentiation, applications of differentiation, and integration. Prerequisite: Grade of C or better in Mathematics 105 or an acceptable score on the math placement exam.

Course Learning Objectives: Math 211 is the first course in a three-course sequence: 211/221, 222, 323. The major topic in this course is differential calculus with an introduction to integral calculus. The general course goals are to help you:

- develop skills in applying the techniques of calculus,
- develop an understanding of the central concepts of calculus,
- develop critical thinking and problem solving skills,
- develop an ability to communicate mathematics, both in writing and orally, and
- prepare for further study in mathematics, the physical sciences, or engineering.

Methods of Instruction: The method of instruction for most classes will be a lecture/discussion. Most classes will begin with a discussion of homework problems followed by an introduction of new material. 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, complete all assigned homework, and come to my office hours and ask questions about the homework.

Grading: I will provide you with a number grade on each assignment and on each test, so that you may keep track of your performance. As a guideline, the components will contribute in the following proportion to the final grade:

- Attendance – 3%
- Quizzes – 12%
- Gateway Exam (Oct 22-Nov 14) – 10%
- Four Exams (Sept 12, Oct 3, Oct 31, Nov 21) – 50%
- Comprehensive Final Exam (Dec 12, 8:00 AM) – 25%

Final grades will be assigned using the following percentages: A 90-100; B 80-89; C 70-79; D 60-69; F 0-59. However, I reserve the right to subjectively adjust your semester grade. Please see me if you have any questions about how you stand. All grades will be posted and updated regularly on Blackboard.

Course requirements and policies:

a. Calculators: You may use a calculator on all exams. If you do not 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 tests, exams or quizzes.

b. Quizzes: The word “quiz” may mean a variety of things – an announced in-class quiz (see schedule), selected homework problems to turn in, an in-class group activity, an out-of-class activity, or a take-home quiz. There are NO make-ups for quizzes. At the end of the semester, the lowest in-class quiz score of each student will be dropped. Note that the in-class quizzes are noted on the Schedule (see page 4).

c. Gateway Exam: The Gateway Exam is a test of basic differentiation skills. It is a pass/fail exam and will be given in class on October 22. It can be retaken by appointment only from October 22 through November 14. Calculators are NOT allowed. The basic reason for giving the gateway is to make sure that students who complete this calculus course can differentiate accurately and efficiently.
d. Make-ups: Assignments that are to be completed outside of class will not be accepted late for any reason. Make-up exams 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.

e. Homework: The homework assignments can be found below. These problems are for your practice and will not be graded; HOWEVER, you should do all of these homework problems and you are responsible for knowing how to work them. Many questions on the quizzes, tests and exams will be strikingly similar to those given in the homework.

f. Honor Code: It is expected that students are familiar with and will comply with the terms of the University's Academic Honor Code.

I will neither give nor receive unauthorized aid, nor will I tolerate an environment which condones the use of unauthorized aid.

Note that collaboration on homework is allowed and encouraged, but giving or receiving help of any kind on tests, exams or quizzes is strictly prohibited.

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.

h. Some advice: Here is some advice from a UE student:

- Try the homework before asking for help
- Read the book before class
- Be active in class and come every day, on time
- Actively seek understanding
- Prepare for tests other than the night before
- Question why things are done a certain way
- Correct all old tests

You should expect to spend at least 10 hours each week studying outside of class. Your study time should include reading the text and working on all homework problems. I recommend that you keep your notes, quizzes, exams, and class handouts organized – you will need them to prepare for the Final Exam. Please do not hesitate to stop by my office, call me, or send me an email if you are having difficulty with any part of the course.

Have a great semester!

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Homework

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*Assignments continued on next page
**Homework (con’t)**

**Trigonometry Review**
- DG 7.1 p. 472: 1-8, 9, 15, 17, 29-33 odd, 39, 43, 49
- DG 7.2 p. 486: 1, 3, 7, 9, 13, 17, 23, 27, 39, 45, 49, 55
- DG 7.3 p. 500: 1, 3, 7-17 odd, 21, 25, 27, 31, 39, 43, 45
- DG 7.4 p. 515: 1-9 odd, 13, 15, 19, 27, 31, 37, 39, 41, 43, 59
- DG 7.5 p. 527: 1-8, 9, 13, 17, 19, 21, 27
- DG 7.6 p. 539: 1-15 odd, 19, 23, 25, 31, 35, 37, 39, 41, 49, 63

**Exam 1, Friday, September 12**

**Trigonometry Review (con’t)**
- DG 8.3 p. 578: 1, 5, 9, 15, 19, 23, 25, 33, 37
- DG 8.4 p. 590: 7, 11, 19, 23, 27, 33, 37, 41, 51, 63

**Limits and Continuity**
- S 2.1 p. 87: 3, 5, 7
- S 2.2 p. 96: 5, 7, 9, 13, 15, 17, 21, 25, 27, 29, 37
- S 2.3 p. 106: 1, 11, 13, 15, 17, 21, 23, 25, 35, 41, 47
- S 2.5 p. 128: 3, 5, 9, 11, 15, 17, 19, 35, 37, 39, 41, 47, 49
- S 2.6 p. 140: 3, 5, 7, 17, 19, 23, 25, 28, 35, 39, 41, 47

**Exam 2, Friday, October 3**

**Differentiation**
- S 2.7 p. 150: 5, 7, 9, 11, 13, 17, 19, 25, 29, 31, 35, 41, 43, 45, 47
- S 2.8 p. 162: 1, 3, 5, 7, 9, 19, 25, 27, 33, 35, 51
- S 3.1 p. 180: 3-31 odd, 33, 35, 45, 49, 51, 53, 55, 63, 67, 71, 73, 75
- S 3.2 p. 187: 3-33 odd, 37a, 39a, 43, 45, 47, 49
- S 3.4 p. 203: 1-45 odd, 47, 51, 53, 55a, 59, 61, 63, 65, 67
- S 3.5 p. 213: 3-19 odd, 21, 23, 25, 27, 29, 33, 35, 45-53 odd, 57, 65, 67
- S 3.6 p. 220: 3-33 odd, 37-49 odd

**Gateway Exam, Wednesday, October 22**

**Applications of Differentiation**
- S 3.7 p. 230: 1, 3, 5, 7, 9, 15, 25a, 29, 31
- S 3.9 p. 245: 3, 5, 7, 9, 10, 11, 13, 15, 17, 23, 31, 33
- S 3.10 p. 252: 1, 3, 11, 15, 17, 19, 21, 23, 27, 31, 43a
- S 4.1 p. 277: 3-13 odd, 27, 29-43 odd, 47-61 odd
- S 4.2 p. 285: 1-7 odd, 11-17 odd, 23, 25
- S 4.3 p. 295: 1, 5, 7, 9-17 odd, 23, 25, 27, 29, 31, 33, 39, 41, 43, 45, 47, 51, 53
- S 4.4 p. 304: 5-63 odd
- S 4.5 p. 314: 7, 11, 19, 27, 35, 43, 49
- S 4.7 p. 328: 3, 5, 7, 9, 11, 13, 21, 27, 31, 33
- S 4.9 p. 345: 1-19 odd, 23-45 odd, 47, 49, 51, 53, 57, 59, 61

**Exam 3, Friday, October 31**

**Integration**
- S 5.1 p. 364: 1, 3, 5, 11, 13, 15, 17, 19, 21
- S 5.2 p. 376: 1-11 odd, 17-25 odd, 29, 33-41 odd, 47, 49, 51, 53
- S 5.3 p. 387: 3-43 odd, 51-59 odd, 63, 65
- S 5.4 p. 411: 1-17 odd, 21-43 odd, 47, 49, 51, 53, 55, 57, 59, 63, 65
- S 5.5 p. 406: 1-45 odd, 51-69 odd, 73, 77, 79

**Final Exam, Friday, December 12, 8 AM**

*Changes to Exam dates and Homework will be announced in class*
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*Please note that this schedule may vary according to our progress in class.*