

**APPLIED CALCULUS
FALL 2009 ~ MATH 1220 ~ A**

Instructor Marvalisa M. Payne

Lecture: MWF 8:00 -8:50 am
Lecture: University Hall 241
Text: Brief Calculus (custom text)
By Larson and Edwards

Office: Allgood Hall E347
Office Ph: 729-2463

Email: **MPayne@aug.edu**
Office Hrs: **M W F** 9:00 – 9:45 am
T 10:00 – 11:30 am
Or By Appointment

| <u>Grade Scale</u> | | <u>Grade Component</u> |
|--------------------|---|------------------------|
| 90-100 | A | Exams I–V 50 |
| 80 – 89 | B | BD Wk/Qz: 20 |
| 70 – 79 | C | Final Exam: 30 |
| 60 – 69 | D | |
| 0 – 59 | F | |

Course Description & Purpose: The main goal of this course is to deal with limits and properties of functions, and to master the basic differentiation and integration techniques to be exposed to typical applications of and algorithms involving derivatives and antiderivatives.

Calculators: A calculator is **required**. However, you may **NOT** use a calculator with symbolic manipulation capability such as the TI-89 and the TI-92.

Conduct: It is expected that common courtesy will be used at all times with your fellow classmates and instructor. Abuse of common courtesy may decrease your grade up to 5%. Any **DISRUPTIVE STUDENT** will be withdrawn from the class and given a WF.

- o University and departmental policy does not allow for the use of cell phones, pagers or any Bluetooth electronic devices during class. Therefore, it is expected that these devices will be turned off during class. Also, no headphones are to be worn during class as well.
- o Please do not come to class if you feel that you must read a newspaper, read a book, use your laptop, or work on other class material during class.

What is required of the Students?

As with most endeavors, what you get out of this course will be directly related to effort you put into the course. You cannot learn mathematics just by watching and believing that you understand. You must actually do the mathematics to learn. Homework will be assigned every day.

Tips:

- o For every hour in class, plan to spend up to one hour outside of class. Work to develop understanding as well as skills.
- o You should read the appropriate section of the text before you work homework problems, or preferably before you come to class. You may find that you have to reread a passage several times before you understand it which is unlike reading a novel or newspaper.
- o As you read section you should work the examples out for yourself without looking at the answer.
- o Don't make the mistake of trying to memorize ever single rule or fact. Mathematics is a problem solving art, and not a collection of facts.
- o Don't give up on a problem if you can't solve it right away. Struggle with it until you solve it. How? Reread the problem, reread you class notes and examples, and reread the section. Then rework the problem. Pinpoint what it is you are having trouble with. Study with a partner or a group. Ask questions. Once you have done this a few times you will begin to understand what mathematics is really about. You will become more adept at the struggle and more apt to learn mathematics.
- o Mathematics builds on itself. So, do not wait until it is too late to seek help. See me if you are having problems. Or, you can obtain additional help form the Math Lab. For information regarding the Math Lab, please see <http://www.aug.edu/mcs/helpsessions/Welcome.html>.

Success in this course is ultimately **YOUR RESPONSIBILITY**.

**APPLIED CALCULUS
FALL 2009 ~ MATH 1220 ~ A**

Instructor Marvalisa M. Payne

Grades:

o **Exams:**

There will be five exams and one exam will be dropped. Each exam is worth 12.5%. There will be absolutely **NO MAKE UP EXAMS OR EXTRA CREDIT**. Therefore, if you must miss a test, no matter how excellent or valid the reason, I will record a zero and you can use this as your drop test.

o **Board Work/Quizzes:**

Board Work is worth 20% of your grade. You will have the opportunity to earn points through attendance and class participation by working homework problems on the board. I will both call on students and ask for volunteers. Board work will not be available every class period. So, on those days board work is not available, points may be added for attendance. Therefore, poor attendance will negatively affect your grade.

Board points will be worth 5-10 points for each problem. Board points will be worth 5 points per problem until test 2, thereafter 10 points per problem. However, you will have the opportunity to double your points to 10 or 20 point the day before a test day (i.e., test review days). **I will deduct 5 points from your board work for late arrivals and/or early departures.**

In substitute of board work, you may also earn points by helping other students. I may give unannounced quizzes periodically throughout the semester worth 10 points each. No more than 20% of your grade can be earned through board work. I reserve the right to give you other opportunities such as projects or take home problems to earn points. A target of 325 points will be established. This number can be increased or decreased depending on the pace of the class.

o **Online Homework**

We will be doing online homework with Web Assign. It will be worth 10% of each test. All online homework must be completed before each test and must be 80% correct.

o **Final:**

There will be a mandatory comprehensive final exam worth 30% of your grade.

o **Attendance:**

Attendance will be recorded including late arrivals and early departures. No credit will be given toward your grade for regular attendance, which is required and expected. Please note that 5 late arrivals and/or early departures are considered one absence. In accordance to university policy, if you miss more than 4 class periods (i.e., 10% of the class) you are subject to being withdrawn from the class by me. However, withdrawal from the class is your responsibility.

Furthermore, more than 7 absences will be considered excessive absences. In particular, if you have excessive absences including late arrivals and/or early departures your Board Work/Qz average will be negatively affected. Please note that withdrawals after midterm will earn a grade of WF except in very unusual circumstances such as severe illness or accident. Please keep late arrivals and early departures at an exception. **This is a violation of the common courtesy policy as well as distraction for your fellow classmates and me.** Be sure to sign the attendance sheet every class period.