

Instructor: Dr. Jorge R. Lopez

Room: CP 438

Class hours: MWF 2:00-2:50 PM

Office hours: F: 4:00-6:00 PM, MATH DEPT.

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Prerequisites: C or better grade in College Algebra

Text: Calculus for business, Economics, and the Social and Life Sciences, 10th edition, by Laurence D. Hoffmann and Gerald L. Bradley

FIU will be offering live math tutoring over the Internet. Go to <http://www.fiu.edu/~gato/livetutor/> this page also lists the hours of the service, which are nights and weekend when the Learning Center is closed. You should use OAL Instant Messenger to ask your questions and the tutor will reply using George Kafkouils' CineMath software. Go to <http://www.fiu.edu/~cinemath>.

Description: The focus of this course is on differentiable and integrable functions and several applications on business and economic area. The course covers graph and limits of real functions, differentiation, exponential and logarithmic functions, integration, and function of several variables.

Course Objectives: After finishing the course students should have a good understanding of the concept of the derivative of a function. They should be able to use properties of differentiable functions in applications from business area. They should be able to use the exponential and logarithmic functions and their respective derivative in business area. They should know and be able to apply properties of integrable functions. They should be able to minimize or maximize functions of several variables.

Sections to be covered: 1.1-1.6, 2.1-2.5, 3.1-3.4, 4.1-4.4, 5.1-5.5, 6.1-6.2, 7.1-7.2

A breakdown of exam coverage is as follows:

| <u>Exam</u> | <u>Tentative Date</u> |
|---|-----------------------|
| Test 1: Sections 1.5 – 1.6, 2.1 – 2.6 | 01/31/11 |
| Test 2: Sections 3.1 – 3.5 | 02/16/11 |
| Test 3: Sections 4.1 - 4.4 | 03/04/11 |
| Test 4: Sections 5.1 – 5.5, 6.1 | 04/08/11 |
| Test 5: Final Exam: All sections plus Section 7.1-7.3 (2 hours) | 04/27/11 |

My grading scale is as follows:

| | | |
|-----------------|-----------------|-----------------|
| 360+ points A | 308-319 pts. B- | 240-255 pts. D |
| 348-359 pts. A- | 296-307 pts. C+ | 228-239 pts. D- |
| 336-347 pts. B+ | 268-295 pts. C | 0-227 pts. F |
| 320-335 pts. B | 256-267 pts. D+ | |

Each test is worth as follows:

| | |
|----------------------|-----|
| 1 st test | 70 |
| 2 nd test | 70 |
| 3 rd test | 70 |
| 4 th test | 70 |
| Final Exam | 120 |

I reserve the right to add points to the totals of students who display outstanding class participation (during both lectures and office hours).

Attendance: I) NON-TEST DAYS: OPTIONAL. Absence is preferred to tardiness. Three points will be deducted from your point total at the end of the semester for each tardiness (even one second late constitutes a tardiness). Students with even one tardy will be ineligible for the following benefits:

- Recommendations (e.g. for graduate school, scholarships, employment, etc.)
- Any class participation points mentioned above.

No written or oral excuses will be accepted for tardiness. If you can't make it on time, don't come!

II) TEST DAYS: REQUIRED. You will have at least 2 classes notice of an upcoming test. There are NO MAKEUP TESTS. If you miss a test and, in the opinion of the instructor, the absence is excusable, your final exam will count as two grades. If the absence is not excusable, you will receive a zero on the test missed. Be prepared to document your excuse with a traffic ticket, hospital bill, arrest form, etc. A doctor's note is not acceptable unless it says "(student's name) was unable to attend school on "date of test)." Tardiness is permitted on test days without penalty although you will have less time on the test than everyone else. If you are so late that someone has already turned in his or her test before you arrive, you will not be allowed to take the test.

All tests must be written using pencil. A scientific calculator is required. Graphing calculators may not be used on tests.

Drops: If you stop attending, you must drop this class yourself to avoid a grade of F. The deadline for dropping classes with a grade of DR is March 4, 2011.

INCOMPLETES are granted only in highly extenuating circumstances, if the student is passing up the point where the circumstance arises. They are given only in very well documented cases and with exceptional departmental permission. Also in order to get incomplete 2/3 of the course must be completed and student must be passing the class.

Classroom Etiquette: To create and preserve a classroom atmosphere that optimizes teaching and learning, students are expected to conduct themselves at all times in a manner that does not disrupt teaching or learning. You are expected to come prepared to the class, be on time and remain in the classroom for the duration of the lecture. Talking, eating, sleeping, checking e-mail, using a phone, reading a newspaper, preparing for another class, packing up early is disruptive to others around you and to the instructor. Though classroom participation is always welcomed, questions and comments must be relevant to the topic at hand. If you have a question or comment, raise your hand to be recognized. Electronic devices such as cell phones, ipods, and computers must be turned off during class. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class.

Extra tuition charges for repeated courses and excess hours: The Florida Legislature has mandated a tuition surcharge for the third time a student either takes or attempts a college credit course. For more information on this charge, including possible appeal of this surcharge, see <http://www.fiu.edu/orgs/register/surcharge.htm>. This charge should serve as additional motivation for you not to have to retake this course. In other words, **DO THE HOMEWORK!!!!!!**