COURSE INFORMATION

Instructor: Dr. Louiza Fouli
Office: WH 214
Email: lfouli@nmsu.edu
Telephone: 575-646-2201
Website: http://www.math.nmsu.edu/~lfouli
Course Website: http://www.math.nmsu.edu/~lfouli/courses/spring11/index.html

Class Time:
Lecture: Tue-Thu 1:10-2:25pm Gerald Thomas Hall 194
Lab: Wed 1:30-2:20pm Hardman Hall 106

Office Hours:
Tuesdays 2:30pm-4pm
Wednesdays 10:30am-11:30am
Or by appointment

Teaching Assistant: Feras Yousef
Office: WH 50
Email: faamy@nmsu.edu
Office Hours: Wednesdays 2:30-4:30pm
Or by appointment

COURSE OBJECTIVES:

Learning Objectives—Students should:

Demonstrate facility with graphs and data sets. This includes:

- Sketching graphs and producing tables from given equations
- Locating critical points using graphs and tables
- Determining average and instantaneous rates of change from graphs and tables

Understand and write mathematical explanations using appropriate vocabulary and notation.

- Follow the algebraic logic behind textbook examples and produce coherent, correct, and easy to follow mathematical work
- Read and interpret descriptions of real world phenomena—discuss rates of change in a concise and educated fashion

Model, interpret and solve equations for exponential relationships.
Demonstrate an understanding of key calculus concepts:

- Continuity and Limits
- Differentiation
- Integration
- Implicit Differentiation
- Differential Equations
COURSE OBJECTIVES, continued:
Distinguish problem solving skills within the context of mathematical applications—distinguish, solve, and interpret the answers for problems that call for:

- Evaluating functions
- Finding relative and absolute maximum and/or minimum values
- Finding instantaneous rates of change
- Integrating functions to obtain total values from rates of change functions
- Implicitly differentiating and finding related rates

Distinguish between limited, unlimited, and logistic growth models

PREREQUISITES:
Grade C or better in Math 121G.

TEXTBOOK:

Buying your Textbook and WebAssign
The NMSU Bookstore has new and used copies of a cut down version of the text. The custom book has no added material, so you may buy an uncut version if you wish. It will be heavier and new books cost a lot more than the custom version. You can order uncut textbooks from other internet sources. The ISBN for the uncut textbook is: 978-0-547-16978-1. You can also order various versions through http://www.cengagebrain.com.

If you buy a new book at the NMSU Bookstore, they should include a WebAssign code. The charge for WebAssign will be included with the cost of the textbook.
If you buy a used book (from the Bookstore or anywhere else), you will need to buy a WebAssign code separately. You can do this through the Cengage website, www.cengage.com or from www.webassign.net directly.

You do not have to buy a paper copy of the textbook. You can buy electronic access to the entire text along with your WebAssign code. It costs more money than the standard version that allows you to take quizzes, but it is cheaper than buying a paper text from a bookstore. You will need to print out pages and bring them to class which is an added expense.

WEBASSIGN
Students MUST have WebAssign. If you buy WebAssign on-line you will have two weeks to pay for it. In order to register for webassign you must go to http://webassign.net.

Click on the Have a key link and follow the prompts to register. The first screen will ask you for the course code. The course code is: nmsu 1557 3763

Feel free to e-mail me if you are having trouble registering. You may also use the student support link to get help directly from webassign.
COURSE CONTENT

We will cover sections 2.1-2.7, 3.1-3.6, 4.1-4.4, 5.1-5.2, 6.5-6.6 and others as time permits.

GRAPHING CALCULATOR

Students are required to bring a graphing calculator to each class. It will be used on homework (the text includes a number of technology exercises), quizzes and exams. The TI-83/TI-84 series of calculators is highly recommended. If you do not wish to purchase a graphing calculator, you can lease one for $35 from the Department of Mathematical Sciences. Go to the Information Window in WH 101. There you will fill out a form and will get a calculator. Your NMSU account will be billed $150 and then $115 will be credited when you return the calculator at the end of the semester.

CALCULATOR INFORMATION

You will be required to use the graphing and table functions of your calculator. There will be exam problems that cannot be solved algebraically. If you are new to the graphing calculator, there is a worksheet entitled ‘Getting started with the . . . ’, available from the Tutoring Center. They cover the TI-82, TI-83, TI-85, TI-86, and TI-89. Students with other calculators should use their calculator manual for guidance and/or ask the instructor for advice.

TUTORING

Tutoring is available for this course in The Mathematics Tutoring Center in Walden Hall (WH 101). The Tutoring Center in WH 101 opens 9 am to 8 pm (Monday -Thursday) and 9 am to 5 pm (Friday).

ATTENDANCE, ASSIGNMENTS, EXAMS AND GRADES:

Attendance:

Attendance will be taken for both the lecture and the lab. I expect you to arrive on time and to remain for the full class period.

Blackboard Reading Quizzes

Students are required to read excerpts from the textbook and answer questions regarding their reading before coming to class. These reading quizzes will be administered through blackboard. The quizzes will be due by 10 am on the due date, which will be either a Tuesday or a Thursday.

Homework:

Homework will be assigned on a weekly basis. We will work on the homework some during the lecture period and mostly in the lab. The homework will not be collected. It is very crucial that you work out the homework problems as the homework quizzes (see below) will be similar to the homework. The homework assignments will be posted on the course website as well as blackboard.

Blackboard

Blackboard can be accessed at [http://learn.nmsu.edu](http://learn.nmsu.edu)

ICT Customer Service Center is equipped to deal with all of your information technology (IT) and telecommunications needs at NMSU. The ICT Customer Service Center hours of operation are from 8:00 AM until 5:00 PM Monday through Friday. Please feel free to contact them at 646-1840 or via e-mail at helpdesk@nmsu.edu.

You can also go to the Student Technology Help web page and the Student Resource tab on learn.nmsu.edu for additional information on NMSU Technology requirements.
Spring 2011 Math 142: Calculus for the Biological and Management Sciences

Homework Quizzes:
After you have worked on your homework assignment you will be asked to take a homework quiz on
problems similar to the homework problems. Homework quizzes will typically be due on Wednesdays
by 11pm in the evening and will be administered through WebAssign. The two lowest scores from
the homework quizzes will be dropped.

Graphing Project
The graphing project will be discussed in class and then written up individually.

Exams:
There will be two in-class midterm exams. The tentative dates for the exams are:
Exam 1: February 17th
Exam 2: April 7th
If you have a conflict with the exam times, let me know immediately.

Final Exam:
The final exam will be cumulative. It is scheduled for Tuesday, May 3rd 2011 from 1pm to
3pm in Gerald Thomas Hall 194.

Grades:
I will use the following allocation for calculating your final grade:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>10%</td>
</tr>
<tr>
<td>Reading Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Graphing Project</td>
<td>5%</td>
</tr>
<tr>
<td>Homework Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>2 Exams</td>
<td>20% each</td>
</tr>
<tr>
<td>Cumulative Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Your final (letter) grade will be determined approximately by the usual 90-80-70-60 % cut-offs of
a total numerical grade. The instructor reserves the right to modify the grading scale if considered
appropriate. Changes (if any) would be in the students’ benefit. The grades will be posted on
blackboard throughout the semester.

COURSE POLICIES:
Class Communication:
Official communication to you will often come through your NMSU e-mail box. Please access it
regularly, or forward it to your current use address. The best way to reach me is through e-mail at:
lfouli@nmsu.edu

Outside of Class Expectations
Students should read the assigned textbook excerpts before class (and take the corresponding Reading
Quiz in Blackboard). Students should complete homework assignments (and take the corresponding HW Quiz in WebAssign). Homework, quizzes and studying for exams will require time outside of
class. Students should allow three to six hours each week OUTSIDE of class time to work on Calculus
assignments. If you are spending more time than this, please see your instructor for suggestions on
more effective use of your time.
Late/Make-up Work:

Late work will NOT be accepted. In the case of a documented excused absence some accommodations may be made as long as you have informed your instructor before the deadline expires. Excused absences include absences due to illness and travel on university or career-related business. (See also the section Attendance and Student Performance in the Undergraduate Catalog. No make-up work may be submitted after grades have been posted, unless you have been awarded an Incomplete grade.

Withdrawals and Incompletes:

You have the primary responsibility for withdrawing from the course. I will authorize the secretary in the Math Office (SH 236) to sign drop slips for me, in case I am not available. The last day to drop a course online (not recorded on academic record) is January 25, 2011. The last date to drop with a “W” is March 8, 2011. Under university policy the letter grade “I” is allowed only if a student has passed the first half of the course, and is precluded from completion of the second half of the course by a documented illness or family crisis.

If you drop a class on-line or are told that someone else will drop you, you need to check and make sure that the class was properly dropped. The same applies to adding a class.

Academic Misconduct:

In this course, cheating on an exam earns a zero for that exam. Sending someone else to take your exam is an automatic F in the course.

It is assumed that you have familiarized yourself with the portion of the student handbook and catalog pertaining to academic misconduct. Please be aware that such misconduct, including but not limited to plagiarism, is subject to disciplinary action. Students should note that both intentional and unintentional plagiarism is prohibited. Students may refer to the following websites for more information. The current University definition of plagiarism can be found at:

http://www.nmsu.edu/vpsa/SCOC/misconduct.html

Discrimination:

Feel free to call Jerry Nevarez, Director of Institutional Equity, at 575-646-3635 with any questions you may have about NMSUs Non-Discrimination Policy and complaints of discrimination, including sexual harassment.

Disabilities:

Feel free to call Diana Quintana, Coordinator of Services for Students with Disabilities, at 575-646-6840 with any questions you may have on student issues related to the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act of 1973. All medical information will be treated confidentially.