Math 121 – Applied Calculus I
Spring Semester 2008 (01-28 to 05-24)
Tu 6:30 PM – 9:40 PM, Room S5-203
CRN #55067 (3 unit course)

INSTRUCTOR & WEBSITE INFORMATION
Instructor: Howard Blumenfeld
Class Website: http://www.sdmiramar.edu/faculty/hblumenf/sp08121.html

Office Location: I-104C
Telephone Number: (619) 388-7705
Campus Email: hblumenf@sdccd.edu

Office Hours
Mon 4:00 PM – 5:00 PM
Tues 4:00 PM – 5:00 PM
Wed 4:00 PM – 5:00 PM
Thurs 2:00 PM – 3:00 PM
Fri 1:00 PM – 2:00 PM
(or by appointment)

IMPORTANT DATES & DEADLINES
Add: 02-08-2008
Drop with Refund: 02-11-2008
Drop without “W”: 02-08-2008
Withdrawal: 04-11-2008
Credit/No Credit: 03-03-2008

COURSE DESCRIPTION
This is a course designed for students intending to major in business, natural science or
social science. It does not fulfill a mathematics requirement for students majoring in
mathematics, chemistry, physics or engineering. This course combines the study of
algebra, analytic geometry, and calculus using numerical, graphical, and analytical
methods to analyze calculus problems encountered in real world applications. Topics
include limits, derivatives, and integrals of algebraic, exponential and logarithmic
functions. Applications of calculus include curve sketching, optimization, and areas
under curves. Analytical reading and problem solving are required for success in this
course. (FT). UC Transfer Course List. Associate Degree Credit & transfer to CSU and/or
private colleges and universities. City, Mesa, Miramar- MATH 121 and 150 combined:
maximum credit, one course. CAN MATH 30 = MATH 121 (City,Mesa,Miramar) CAN
MATH SEQ D = MATH 121 + MATH 122 (City,Mesa,Miramar).

PREREQUISITES
MATH 116 with a grade of "C" or better, or equivalent.
REQUIRED TEXTBOOK
ISBN# 978-0-13-232818-0

REQUIRED SOFTWARE
We will be using the *MyMathLab* software package in consultation with the Course Compass course shell. If you purchased the textbook new, there may be a packet inside containing an access code. Do not discard this packet, as you will need it to register for the software. To access the *MyMathLab* website, go to [http://www.coursecompass.com](http://www.coursecompass.com) and register for the online component of this course by entering in your registration code. If you do not have a registration code, you may purchase one on the website. After entering in your registration code, you will be prompted to enter in the student section code (also called the course id) which is **blumenfeld08833**. By entering in this code, you will obtain access to valuable online materials and homework assignments & quizzes.

If you are experiencing difficulty registering for *MyMathLab* and need more detailed assistance, please visit the course website [http://www.sdmiramar.edu/faculty/hblumenf/sp08121.html](http://www.sdmiramar.edu/faculty/hblumenf/sp08121.html) and follow the instructions on the main page.

CALCULATOR
A graphing calculator is required for this course. Acceptable models include the TI-83, TI-84, TI-85, and TI-86. You may not use models including the TI-89, TI-92, TI-100, or TI-Nspire. If you have questions concerning your calculator, please bring them to my attention immediately.

STUDENT LEARNING OBJECTIVES
Upon successful completion of the course the student will be able to:
1. Interpret and evaluate limits of algebraic, exponential and logarithmic functions.
2. Determine the continuity of functions at specific points and in an entire set.
4. Analyze graphs of functions using calculus techniques.
5. Apply derivatives to solving constraint and unconstraint optimization problems.
6. Apply logarithms and exponential to solve growth and decay models.
7. Apply derivatives to business, natural and social science related problems.
8. Calculate antiderivatives of functions involving algebraic, exponential, or logarithmic terms.
9. Calculate antiderivatives using the technique of substitution.
10. Compute definite integrals by applying the Fundamental Theorem of Calculus, and apply definite integrals in solving for the area in between curves.

ATTENDANCE POLICY
Attendance will be called daily. It is your responsibility to confer with the instructor in the event that you arrive late to class. If you do not confer with the instructor during the
class session in which you are present, you will be marked absent for the day. Arriving
to class excessively late or leaving class early on a regular basis may be counted as
absences at the instructor’s discretion. On the second absence, the student may be
dropped from the course.

In the event that you must miss class due to a personal or family emergency, you must
contact the instructor in person or via email no later than a 24 hour period past the missed
class period to be considered for an excused absence. Documentation may be required.

Anyone who misses the first class session will be dropped.

In the event that a student wishes to drop the course at any point after the first drop
deadline (02-08-2008), it is solely their responsibility to do so.

MAKE-UP ASSIGNMENTS & EXAMS
Typically, make-up assignments of any nature are not allowed. In the event of a personal
or family emergency that prevents the student from being present on the day an
assignment is due or an exam is given out the following policies apply:

For an assignment, the student must contact the instructor in person or via email no later
than 24 hours past the assignment due date & time to be considered for an extension.
Such an extension may be granted for a duration not to exceed one week. Documentation
may be required.

For an exam, a make-up will only be permitted provided that the key has not been
released to students and their exams have not yet been returned. The affected student
must contact the instructor in person or via email no later than 24 hours past the exam
date & time be considered for an extension. If the instructor offers an extension, the
student must be available at one of the day(s)/time(s) offered by the instructor to be
eligible for the extension. In the event that this 24 hour period has been exceeded or the
exams or keys have been handed back to the students, an extension will not be granted
under any circumstances.

Ultimately, the authority to grant or not grant an extension resides solely with the
instructor.

TECHNICAL DIFFICULTIES
Should you find that you are experiencing frequent technical difficulties with your
internet connection or computer, you may wish to use a computer with a more reliable
operating system or internet connection, such as one at the ILC. In the case that you
experience a technical difficulty while working on your homework and you are unable to
fix it, you must email me so I can re-grant you access to the assignment. In your email,
please describe the time and date of the problem along with a detailed description of what
happened. I will review your email and your incomplete assignment attempt and at my
sole discretion, I may re-enable access to the assignment. If you experience technical
difficulties and I do not receive the email in a timely fashion (i.e. it is sent last minute), I will not, under any circumstances, re-enable access to the particular assignment.

CLASSROOM CONDUCT
Please read the section of the student catalog regarding student rights and responsibilities to familiarize yourself with what is called Policy 3100. Pay close attention to the section regarding the “Code of Conduct.” By district policy, only those who are officially enrolled in the course are allowed to attend and sit in class while in session.

Your classroom behavior can affect your grade. Disrespectful behavior including (but not limited to) talking while the instructor or another classmate is talking, harassment of any kind, cell phone disruptions, or any other behavior deemed disruptive by the instructor will not be tolerated.

Any student in violation of this classroom behavior policy may be asked to leave class and may be referred to members of the Miramar College administration for further disciplinary action. Further penalties are at the discretion of the instructor and/or the San Diego Community College District.

ACADEMIC INTEGRITY
Honesty and integrity are integral components of the academic process. Students are expected to be honest and ethical at all times in the pursuit of their academic goals in accordance with San Diego Community College District Policy 3100, Student Code of Conduct and Procedure 3100.3, Honest Academic Conduct. Any student suspected of violating this policy may be subject to disciplinary action, including (but not limited to) the assignment of a letter grade of “F” in the course and suspension or expulsion from the course and/or district. Further penalties are at the discretion of the instructor in accordance with the rules and guidelines established by the San Diego Community College District.

CAMPUS RESOURCES
Independent Learning Center: Students can access online activities using computers in the Independent Learning Center (ILC) in room I-130. The ILC is typically open M-Th 8am-8pm and F 8am-1:00pm. For the latest and most up-to-date information, please visit their website at http://www.sdmiramar.edu/depts/ilc.

The PLACe/Tutoring Center: Students can request free tutoring in the PLACe/Tutoring Center, room D-106. To receive this tutoring, you should ask your instructor for a tutoring center code to bring with you on your first visit. The PLACe is typically open M-Th 8:30am-6:30pm, F 8:30am-2:00pm, and select Saturdays from 9:00am-12:00pm. For the latest and most up-to-date information, please visit their website at http://www.sdmiramar.edu/depts/PLACe/.

Disabled Student Programs & Services: Students with disabilities who may need accommodations should contact their instructor in person by no later than the second week of class. Disabled Student Programs & Services (DSPS) can assist you in
identifying the appropriate accommodations to meet your needs. For further information or to request an appointment with a DSPS counselor, please send an email to miradsps@sdcdd.net, call (619) 388-7312, or visit them in room C-304. For the latest and most up-to-date information, please visit their website at http://www.sdmiramar.edu/depts/stusvcs/dsps/index.asp.

I have made every effort to ensure that this course is easily accessible to all students, including those with disabilities. Should you encounter a problem accessing any portion of the course, please contact me immediately.

TEAM WORK
During the second week of class, students will be asked to sign up in teams consisting of four to five students. These teams will remain permanent throughout the semester except in the instance that members need to be reassigned at the discretion of the instructor. These teams may participate in extra credit competitions, projects, and other activities. Your team grade can affect your individual grade, so it is important that you choose members who you are likely to work well with.

HOMEWORK
Homework is assigned and due weekly. All homework is to be completed online via the MyMathLab portal. You will need to familiarize yourself early on with the course tools and especially the equation editor that enables you to input algebraic expressions and data into your homework. There are many useful features to the homework assignment, including step-by-step walkthroughs of the problems and tutorial applets.

In addition to the homework assignments, you will have access to the MyMathLab e-book and useful java applets to supplement conceptual learning. The e-book consists of video lectures and walkthroughs and the java applets provide visual aids for working homework problems.

The only material you are responsible for on MyMathLab are the homeworks and quizzes.

With the homework assignments, you can complete them as many times as you like within a specified period of time. You may also save your progress and come back to your work later.

In general, no late assignments will be accepted and if you try to submit a late assignment, the MyMathLab system will not accept it.

For the latest information on due dates and times for homework assignments, please consult the course website.

QUIZZES
There are six online quizzes in this course. In general, you will have one hour to complete a quiz. These quizzes can be found in the online quizzes tab of the MyMathLab
portal. Once you begin a quiz, you may not return to complete it later. You must complete it right there and then. You will only have one attempt to complete a quiz.

**EXAMS**
All exams will be completed individually. You must use a #2 pencil on all exams. Exam dates will also be announced on the course website, so please check there for the latest information.

**FINAL EXAM**
There will be a comprehensive final exam given out on the last day of class. Anyone who does not complete the final exam on the time and day it is scheduled for will be subject to a failing grade in the course, regardless of their grade prior to the final.

**EXTRA CREDIT**
There will be numerous extra credit opportunities throughout the semester. Many of them will involve successful teamwork. Most of these opportunities will be announced randomly in class, so regular and timely attendance is essential to being eligible for extra credit.

**GRADING BREAKDOWN**
Grades are based off a weighted average determined by the following values:

- Homework: 20%
- Quizzes: 20% (3.33% each)
- Exams: 40% (10% each)
- Final Exam: 20%

**GRADING SCALE**

A: 90%-100%
B: 80%-89%
C: 70%-79%
D: 60%-69%
F: 59% and below

By maintaining enrollment in this course, you indicate that you agree to and are bound by the terms and conditions of this syllabus, which are subject to change at any time, with or without notice, at the discretion of the instructor.