Brief Calculus

Instructor: Diane Richardson	**Office: PSA 725**
SLN: 10841	**Office Hours: MWF 12:30-1:30 pm and TTh 10:00-11:00 pm**
Telephone: 480-965-4240. It is best to reach me by email as the phone does not take messages	**E-mail: diane.richardson@asu.edu**

Textbook: <u>Brief Calculus and Mathematics for Business Analysis</u>, Waner & Costenoble, Cengage Publishing, 5th edition.

Prerequisites: Students of MAT 210 are expected to complete MAT 117 (College Algebra) with a grade of A, B or C.

Technology: An appropriate calculator is the only form of technology allowed in the classroom. **The use of laptops, cell phones, MP3, IPOD, etc are strictly prohibited during class.**

Graphing Calculator: A graphing calculator is required for this course. Highly recommended models include the TI-83/84 calculators and the Casio 9750G or 9850GB Plus calculators.
* NOT permitted: calculators with QWERTY keyboards or those that do symbolic algebra, such as the Casio FX2, Casio 9970Gs, TI-89, or TI-92

TI Graphing calculator workshops:

Date	Time	Place
17/1/2012	5:00-7:00pm	NEEB 105
18/1/2012	3:00-4:45pm	NEEB 105

Topic Calendar

Week	Dates	Sections	Comments
1	1/5-1/6	Introductions, **10.1:** Limits: Numerical and Graphical Approaches	
2	1/9-1/13	**10.2:** Limits and Continuity **10.3:** Limits and Continuity: Algebraic Approach	
3	1/16-1/20	**10.4:** Average Rate of Change **10.5:** Derivatives: Numerical and Graphical Viewpoints	**Monday, Jan 16. - MLK Holiday Observed, no classes**
4	1/23-1/27	**10.6:** The Derivative: Algebraic Viewpoint **11.1:** Derivatives of Powers, Sums, and Constant Multiples **11.2:** A First Application: Marginal Analysis	
5	1/30-2/3	**Review for TEST 1** **11.3:** The Product and Quotient Rules **11.4:** The Chain Rule	**TEST 1** **Academic status report #1** **(Feb. 1 – Feb. 8)**
6	2/6-2/10	**11.4:** The Chain Rule **11.5:** Derivatives of Logarithmic and Exponential Functions	**Academic status report #1** **(Feb. 1 – Feb. 8)**
7	2/13-2/17	**11.5:** Derivatives of Logarithmic and Exponential Functions **11.6:** Implicit Differentiation	
8	2/20-2/24	**12.1:** Maxima and Minima **12:2:** Applications of Maxima and Minima	
9	2/27-3/2	**12.3:** Higher Order Derivatives: Acceleration and Concavity **12.4:** Analyzing Graphs **12.5:** Related Rates	
10	3/5-3/9	**Review for TEST 2** **12.6:** Elasticity	**TEST 2**
11	3/12-3/16	**13.1:** The Indefinite Integral **13.2:** Substitution	**Academic status report #2 (Mar. 12– Mar. 19)**
12	3/19-3/23	SPRING BREAK	**Academic status report #2 (Mar. 12– Mar. 19)**
13	3/26-3/30	**13.3:** The Definite Integral: Numerical and Graphical Approaches **13.4:** The Definite Integral: Algebraic Approach and the Fundamental Theorem of Calculus	**Course Withdrawal:** Fri. Mar. 28 in person
14	4/2-4/6	**14.1**: Integration by Parts **14.2:** Area Between Two Curves and Applications	**TEST 3**

Week	Dates	Sections	Comments
15	4/9-4/13	**14.3:** Averages and Moving Average	
16	4/16-4/20	**14.4:** Applications to Business and Economics: Consumers and Producers Surplus and Continuous Income Streams **14.5:** Improper Integrals and Applications Review for the Final exam	
17	4/23-4/24	Review for the Final exam	**Complete Withdrawal Tue. – Apr. 24**

Attendance: Attendance is **mandatory**. Instructors will take attendance on a regular basis. For classes that meet three days a week (MWF, for example), the maximum number of allowed absences is six (6). Students who exceed the number of allowed absences will receive a grade of EN. The grade, EN, indicates failure in the course because of lack of satisfactory attendance.

Final Exam: MAT 210 has a common final exam on SATURDAY April 28th from 7:30 am to 9:20 am as prescribed by the standard university final exam schedule -- see **http://students.asu.edu/final-exam-schedule.** The place of the final exam will be announced later in the semester, especially, since some instructors have more than one sections and will need a lecture hall to administer the final exam.

Midterm Exams: You will take three exams during the semester. Each will involve a mix of mechanical skills and conceptual reasoning. The best possible preparation for them is regular **attendance** and completion of assigned **homework**. These exams are taken in class.

Exam	Dates	Sections Covered
	TTH Classes	
Exam 1 (Wk 5)	Feb. 2	Ch. 10
Exam 2 (Wk 10)	Mar. 8	Sections 11.1 - 12.1
Exam 3 (Wk 15)	**April 5**	Section 12.2 – 14.1
Final Exam	**April 28. at 7:30am-9:20am**	Cumulative

Makeup exams: Makeup exams are given at the discretion of the instructor and only in the case of verified medical or other **documented** emergencies. Notify your instructor **before the test is given** if possible. Call your instructor or the Math Department Office (480-965-3951) and leave a message or directly notify your instructor by email ASAP. If the event is not an emergency, you must notify the instructor in advance to request a makeup. **No test will be dropped!**

Homework, Quizzes & Projects:

- Students are expected to read relevant sections of the textbook prior to attending class
- Homework, quizzes, and projects will be graded. Students may work together on homework, but each individual student is required to submit their own work.

- Quizzes and projects are given at the discretion of the instructor and frequently reflect material that has recently been discussed in class. To encourage attendance, instructors will **not** give makeup quizzes or projects.
- Instructors may assign both written homework and online homework. Online homework will be submitted online via the internet using the online homework systems WebAssign. Students may use their own computers or computers in any one of the ASU computer labs. In order to log on to WebAssign, go to http://www.webassign.net/ . In order to register for WebAssign, you must have an ACCESS CODE and a Class Key. The ACCESS CODE can be purchased with a new textbook or online http://www.webassign.net/ .

FOR SLN: 10841   CLASS KEY is: asu 8780 6785

Grading Criteria:

Point Allocation	
3 Midterm Exams (16.6667 % each)	50%
Final Exam	25%
Homework, Quizzes, Attendance, Projects, Modeling (Instructor Discretion)	25%

Grading Scale	
A	90% -- 100%
B	80 % -- 89%
C	70% -- 79%
D	60% -- 69%
E	Below 60 %

Students Resources:

Tutor Center: The Math Tutor Center (FREE OF CHARGE) is located in PSA-116. You must have a valid ASU "Sun Card" in order to be admitted. The Learning Resource Center has several locations on campus and specializes in small group tutoring sessions. For information visit http://math.asu.edu/mathtutors

Disabilities: If you have any disability that may hinder your performance, please notify your instructor as soon as possible.

Extra credit: If you come to class and do the homework, your grade will take care of itself. No individual requests for extra credit projects will be considered.

Campus Network or WEBASSIGN Outage: Due dates are set by your instructor. As such it is your responsibility to complete the assigned homework in the allocated time ahead of the dead line as the server could be down for an unknown period of time!!!

Agreement of Terms: By remaining registered in the course through drop/add period, you agree to all terms and policies set forth in the syllabus.

NOTE: THIS SYLLABUS MAY BE MODIFIED AT ANY TIME BY ANNOUNCEMENTS MADE IN CLASS.

Departmental and University Policies and Procedures

Drop/Add (In person & Online)	Wednesday, Jan. 11
Course withdrawal (in person/online)	Wednesday, March 28
Complete withdrawal (In person)	Tuesday, April 24

Departmental Drop Back: Based on results of the pretest and advising from the course instructor, a student may elect to drop back to a lower level math course before the drop back deadline. Students should go to the Undergraduate Mathematics Office in PSA 211 to initiate a drop back request.

Course Withdrawal: A student may withdraw from a course with a grade of W during the withdrawal period. The instructor's signature is not required. It is a student's responsibility to verify that that they have in fact withdrawn from a class.

Instructor-Initiated Drop: At the instructor's discretion, any student who has not attended class during the first week of classes may be administratively dropped from the course. However, students should be aware that non-attendance will NOT automatically result in their being dropped from the course. **Thus, a student should not assume they are no longer registered for a course simply because they did not attend class during the first week. It is the student's responsibility to be aware of their registration status.**

The grade of Incomplete: A grade of incomplete will be awarded only in the event that a documented emergency or illness prevents the student who is doing **acceptable work** from completing a **small** percentage of the course requirements. The student must provide written documentation and be passing the class at the time to receive an Incomplete. Make-up final exams will NOT be given for reasons of a non-refundable airline tickets, vacation plans, work schedules, weddings, family reunions, and other such activities. Students should consult the final exam schedule before making end-of-semester travel plans. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed. *The Dean of the student's college must approve any exceptions to these rules.*

Final Exam Make-up Policy: The final exam schedule listed in the Schedule of Classes (http://students.asu.edu/final-exam-schedule#spring) will be strictly followed. Except to resolve those situations described below, no changes may be made in this schedule without prior approval of the Dean of the college in which the course is offered. Under this schedule, if a conflict occurs, or a student has more than three exams on one day, the instructors may be consulted about an individual schedule adjustment necessary, the matter may be pursed further with the appropriate dean(s). This procedure applies to conflicts among any combination of Downtown Phoenix campus, Tempe campus, Polytechnic campus, West campus, and/or off campus class.

 Make-up final exams will NOT be given for reasons of a non-refundable airline tickets, vacation plans, work schedules, weddings, family reunions, and other such activities. Students should consult the final exam schedule before making end-of-semester travel plans.

Honor Policy: The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the University or other sanctions as specified in the University Student Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities.

ACADEMIC DISHONESTY! In the "Student Academic Integrity Policy" manual, ASU defines "'Plagiarism" [as] using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately." You can find this definition at:
http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm#definitions Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other form of dishonesty.

Student Conduct Statement: Students are required to adhere to the behavior standards listed in Arizona Board of Regents Policy Manual Chapter V – Campus and Student Affairs: Code of Conduct

(**http://www.abor.asu.edu/1_the_regents/policymanual/chap5/5Section_C.pdf**), ACD 125: Computer, Internet, and Electronic Communications (**http://www.asu.edu/aad/manuals/acd/acd125.html**), and the ASU Student Academic Integrity Policy (**http://www.asu.edu/studentaffairs/studentlife/srr/index.htm**).

Students are entitled to receive instruction free from interference by other members of the class. If a student is disruptive, an instructor may ask the student to stop the disruptive behavior and warn the student that such disruptive behavior can result in withdrawal from the course. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10 **http://www.asu.edu/aad/manuals/usi/usi201-10.html**.

Disability Accommodations: Please schedule an appointment to see your instructor or come by during office hours if you have a disability that will require accommodations in this class. *Note*: To qualify for disability accommodations at ASU, students must qualify for services through the Disability Resource Center (DRC), which is located on the first floor of the Matthews Center Building at 480-965-1234 (voice) or 480-965-9000 (TTY). Please complete this process as soon as possible.