

SLN: 79568; 84040	Instructor: Dr. Yun Kang
Place: Poly AGBC 160; Ploy AGBC 112	Office: WANNER Hall 340C
Time: 10:30-11:45 am; 1:30-2:45 pm (T Th)	Office Hours: 8:00-10:30am; 3:00-6:00pm (T Th)
Phone: 480 – 727 - 5004	E-mail: <a href="mailto:yun.kang@asu.edu">yun.kang@asu.edu</a>
Homework MAT 210 page address: <a href="http://coursecompass.com">http://coursecompass.com</a>	
General MAT 210 page address: <a href="http://math.asu.edu/fym/Courses/mat210/mat210.html">http://math.asu.edu/fym/Courses/mat210/mat210.html</a>	

**Required Text:** *Mathematics for Business Analysis*, by Scott Surgent  
 Lessons, Topics, and Chapters referred to in the course are keyed to this text.

**Required computer access:** [MyCourseCompass](#)

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

**Absences: Fall and Spring semesters:** For classes that meet three days a week (MWF, for example), the maximum number of allowed absences is six (6). For classes that meet two days a week, the maximum number is four (4). For classes that meet on other schedules, the number of absences allowed should reflect a similar ratio (two weeks worth of class meetings). **Students who exceed the number of allowed absences will receive a grade of EN.**

#### Students Resources:

**Tutor Center in Tempe:** The [Math Tutor Center](#) (free of charge) in PSA 116 will be open M-Th 8:00 a.m. - 6:00 p.m., Fri. 8:00 a.m. - 4:00 p.m., and Sun. 1:00 pm - 6:00 p.m. Phone: (480) 965-9072

**Math Tutor in Poly:** CNTR Building, Lower Level. Phone: (480) 727-1452

Come in for help **before** it is too late, and several days **before** an exam day to strengthen your preparation.

**ASU Learning Resource Center (LRC):** The [LRC](#) provides counseling, tutoring in math (and many other subjects), supplemental instruction, and other types of support to students. It is located in PV West (in the “turtle building”) and in the Memorial Union, Room 14, and is open from 8:00 a.m. to 5:00 p.m.

Please schedule an appointment to see me during office hours if you have any questions, concerns, or if you have a disability that will require accommodations in this class.

Note: The ASU Polytechnic campus liaison to the Disability Resource Center is Garret Westlake, and he can respond to questions and facilitate academic support services and accommodations on campus. Contact Garret Westlake at (480) 727-1039 or [Garret.Westlake@asu.edu](mailto:Garret.Westlake@asu.edu).

### Tentative outline of the course

No	Week	Topics	Comments
1	Aug. 24 – Aug. 27	<b>1.0:</b> Syllabus and Pretest <b>1.1:</b> A Dash of Limits, <b>1.2:</b> More on Limits	
2	Sep. 01 – Sep. 03	<b>1.3:</b> Continuity, <b>1.4:</b> Intermediate Value Theorem, <b>1.5:</b> The Derivative	
3	Sep. 08 – Sep. 10	<b>1.6:</b> Rates of Change and Increasing and Decreasing Functions <b>1.7:</b> Simple Rules for Differentiation,	Sep.07 Labor day Observed
4	Sep. 15 – Sep. 17	<b>1.8:</b> Sums, Products and Quotients, <b>1.9:</b> Chain Rule,	
5	Sep. 22 – Sep. 24	<b>1.10:</b> Higher Order Derivatives, <b>1.11:</b> Exponential and Logarithmic Functions,	
6	Sep. 29 – Oct. 01	<b>2.1:</b> Implicit Differentiation, <b>Review Exam 1</b>	
7	Oct. 06 – Oct. 08	<b>Exam 1, 2.2:</b> Differentiating the Inverse, <b>2.3:</b> Linear Approximation	<b>Exam 1 (1.1 – 2.1)</b>
8	Oct. 13 – Oct. 15	<b>2.4:</b> Why We Use Elasticities, <b>3.1:</b> Introduction, <b>3.2:</b> Simple Tests for Extreme Points,	
9	Oct. 20 – Oct. 22	<b>3.3:</b> Local Extreme Points, <b>3.4:</b> The Extreme Value Theorem, <b>3.6:</b> Inflection Points, <b>3.5:</b> Business and Economic Models	
10	Oct. 27 – Oct. 29	<b>3.5:</b> Business and Economic Models, <b>4.1:</b> Indefinite Integrals, <b>4.2:</b> Riemann Sums,	
11	Nov. 03 – Nov. 05	<b>4.3:</b> Areas and Definite Integrals, <b>4.4:</b> Properties of Definite Integrals , <b>Review for Exam 2</b>	
12	Nov. 10 – Nov. 12	<b>Exam 2, 4.5:</b> Integration by Substitution	Nov.11 Veteran Days Observed <b>Exam 2 (2.2 – 4.4)</b>
13	Nov. 17 – Nov. 19	<b>4.6:</b> Integration by Parts, <b>4.7:</b> Infinite Integrals of Integration,	
14	Nov. 24 – Nov. 26	<b>4.8:</b> Business and Economic Applications	Nov.26 Thanksgiving Holiday Observed
15	Dec. 01– Dec. 03	Final Projects and <b>Review</b>	
16	Dec. 08 – Dec. 10	<b>Review</b>	Dec.09 reading day
	<b>Final Exam</b>	10:30 - 11:45 AM    Tuesday, Dec 15    9:50 - 11:40 AM 01:30 - 02:45 PM    Tuesday, Dec 15    12:10 - 2:00 PM	

**Midterm Exams:** You will take two 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 will be taken in class time.

- Each midterm may come with an outside class project– at the discretion of the instructor.
- Students should complete exams as early as possible during the allotted time frame (Total 75 mins).
- Your calculator memory may be viewed during any exam and will be cleared if anything suspicious is noted. The instructor has the right to regard finding suspicious material in your calculator memory as cheating.

Exams	Dates	Sections Covered
Pre-test (Wk 1)	08/24/09	The test has <b>No</b> effect on your grade.
<b>Exam 1 (Wk 7)</b>	10/06/09 (tentative)	1.1 – 2.1
<b>Exam 2 (Wk 13)</b>	11/10/09(tentative)	2.2 – 4.4
Final Exam	<a href="#">According to the ASU Finals Schedule</a>	Cumulative, Includes 4.5-4.8

**Makeup midterm exams:** Makeup exams are given only in the case of verified medical or other **documented** emergencies. Notify your instructor **before the test is given** if possible. Call your instructor (480-727-5004) and leave a message or directly notify your instructor by email ASAP.

**Final Exam:** The final exam is comprehensive and will be administered in the regular classroom at the time specified by the Final Exam Schedule. The Final Exam Schedule is already set, so make sure to make any travel arrangements for the end of the semester accordingly-- see <http://students.asu.edu/final-exam-schedule>. The final exam date and time for each class is listed below. Absolutely NO final exams will be given early.

- Time and date of MAT 210 final:

CLASS TIME	FINAL EXAM TIME AND DATE
T TH 10:30 am- 11:45am	Tuesday, Dec 15 9:50 - 11:40 AM
T TH 01:30 pm- 02:45pm	Tuesday, Dec 15 12:10 - 2:00 PM

- Makeup finals will NOT be given for conflicts with travel and/or other events. PLAN ACCORDINGLY.

### Homework, Quizzes & Projects:

- Using an online homework system ([MyCourseCompass](#))-required. Throughout the semester there will be assignments from both the textbook and online, however, most homework will be assigned through [MyCourseCompass](#). You are encouraged to work together on homework, but each individual student is required to submit his or her own work. Late homework will not be accepted unless accompanied by acceptable medical documentation.
1. On-line homework: Most homework will be submitted via the internet using the online homework system [MyCourseCompass](#). The website for [MyCourseCompass](#) is [www.coursecompass.com](http://www.coursecompass.com). In order to use [MyCourseCompass](#) you will need a computer running MS-Windows with access to the MS-Internet Explorer web browser. It can be either your own computer or one in any of the ASU computer labs. In order to register for [MyCourseCompass](#), you must have an ACCESS CODE and a Course ID. The ACCESS CODE can be purchased with a new textbook or online at <http://www.mymathlab.com/register.html> and clicking on the link “purchasing online access”. Course name: [MAT210](#); Your Course ID is [kang75044](#).

2. Written work: **In addition** to completing homework on [MyCourseCompass](#), the instructor may occasionally collect problems from the text for a grade. Even if these problems are not collected, it is recommended that students complete these problems for extra practice. Homework/projects will be graded on neatness and completeness, as well as on correctness. Therefore, you must attempt to answer every problem and you must show all of your work. Your handwriting must be legible, your name must be clearly written at the top of each page, and your answers must be boxed or circled. You must also show all work for a problem to receive full credit, even if the final answer is correct. If your homework is written on spiral notebook paper, you must remove the frilly edges before submitting the assignment. If your assignment uses more than one page, the entire assignment must be stapled. If the assignment does not meet all of the above criteria, the assignment will receive a grade of 0.
- Students are expected to read relevant sections of the textbook prior to attending class.
  - 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.

**Grading Criteria:**

Point Allocation: <b>No test will be dropped!</b>	
2 Midterm Exams (20 % each)	40.00%
Final Exam (accumulative)	30.00%
Homework, Quizzes, Attendance, Projects (Instructor Discretion)	30%

**Grading Scale:** A+ >97%, A 93-97%, A- 90-93%, B+ 87-90%, B 83-87%, B- 80-83%, C+ 77-80%, C 70-77%, D 60-70%, E <60%

**University Policies and Procedures**

Course withdrawal (in person):	11/06/09, Friday.
Course withdrawal (online):	11/08/09, Sunday.
Complete withdrawal (in person and online):	12/08/09, Tuesday.

**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.*

**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](http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm#definitions)

**The grade of XE:** A grade of XE is reserved for "failure for academic dishonesty." The XE grade may be petitioned after 1 year.

**Classroom behavior:** Under no circumstances should you allow your cell phone to ring during class. Any disruptive behavior, which includes ringing cell phones, listening to your mp3 player, text messaging, constant talking, eating food noisily, reading a newspaper will not be tolerated. If in my judgment you are disrupting class, I will ask you to leave and I may report you to the Dean of Students.

**The instructor reserves the right to make changes to the syllabus for the benefit of the class.**

### Suggested Practice Problems from the Textbook

Sections	Pages	Homework Problems
1.1	6 - 8	4, 5, 8, 9, 13, 15, 17 b, 18 b, 20 c, 20 e, 21 c, 21 d, 22 f
1.2	13 – 15	3, 5, 6, 7, 9, 11 b, 11 f, 12 b
1.3	19 – 21	2, 4, 6, 7, 9, 13 b, 13 e
1.4	22 – 23	2, 3, 5, 6
1.5	29 – 31	1a, 3, 5, 9, 10, 13
1.6	36	1, 3, 5, 6
1.7	40 – 41	3, 5, 8, 11, 13, 15
1.8	45 – 47	2, 3, 5, 8, 9, 11, 13, 16, 17
1.9	51	3, 5, 8, 9, 13
1.10	56	2, 3, 6, 7
1.11	64 – 66	3, 5, 9, 11, 14, 15, 17, 18, 21, 23, 25, 27, 29, 31
2.1	73	3, 4, 5, 7, 9, 11
2.2	76	1, 3, 4
2.3	80 – 82	3, 4, 5, 7, 9, 13, 14
2.4	85 – 86	1b, 1c, 3, 4
3.1	98	1, 2
3.2	101 – 102	2, 3, 5, 9, 13, 15
3.3	108 – 109	3, 5, 9, 10, 13b, 13c
3.4	114 – 115	2, 3, 5, 8
3.5	123 – 125	3, 4, 5, 7, 10, 11
3.6	128 – 130	3, 4, 5, 7, 11, 13
4.1	135 – 138	3, 5, 7, 9, 10, 12, 15, 17, 20, 21b, 23, 25b, 26b
4.2	142	2, 3
4.3	148 – 149	3, 5, 9, 10, 13, 15, 19
4.4	152 – 153	3, 5, 6, 9
4.5	155 – 157	2, 3, 7, 9, 13, 15, 17, 19
4.6	160 – 161	3, 5, 7, 9, 10
4.7	166 – 169	2, 3, 5, 7, 9, 11, 13
4.8	176	1, 3, 5