MAT 211 – Mathematics for Business Analysis
Fall 2017

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

Instructor:	Office:
SLN:	Office Hours:
Place:	E-mail:

EMAIL is the best way to contact me outside of class.

When e-mailing, include the class you are in (e.g. MAT 211, MWF 10:00 AM). **You should always e-mail directly from your @asu.edu account. If you e-mail from a personal e-mail address, I will not be able to reply.** Check your SPAM folder frequently, as sometimes e-mails I send students are accidentally filtered.

* Note about e-mail: When I send announcements, they will go to your @asu.edu account. You need to check this account regularly. I cannot be responsible for announcements you did not receive because you are using a different account than the one assigned by the university.

Basic Course Info

Materials

- Text: MAT 210/211 Brief Calculus and Mathematics for Business Analysis by Waner and Costenoble, 6ᵗʰ edition.(**optional**)
- WebAssign access (**required**) : This comes with the e-book for no additional cost.
- Graphing Calculator (required) : A graphing calculator is required for this course. If you already have a graphing calculator, you may use it. Examples of highly recommended models are TI 83/84 or Casio 9850GB Plus. Calculators that do symbolic algebra, such as the Casio FX2, Casio 9970Gs,TI-89, TI-92, or TI- *n*spire CAS **cannot** be used in class or during an exam.
- Additional Videos can be found at vidman.asu.edu

Prerequisites

MAT 210, MAT 251, MAT 265, or MAT 270 with C or better.

Tentative Lecture Schedule:

Week	Section and Description	Comments
Aug 14	Introduction 15.1: Functions of Several Variables	**First day of classes:** **Aug 17**
Aug 21	15.2: Partial Derivatives 15.3: Maxima and Minima	
Aug 28	15.4: Constrained Optimization – Lagrange Multipliers Appendix: Extreme Value Theorem	
Sept 4	Extreme Value Theorem (cont.) **Review**	**Labor Day:** **Sept 4**
Sept 11	**Exam #1 (Monday 9/11)** 5.1: Graphing Linear Inequalities 5.2: Linear Programming	
Sept 18	3.1: Systems of Linear Equations (Algebraic/Graphing) 4.1/4.2: Matrices and Matrix Operations	
Sept 25	3.2: Gaussian Elimination 4.3/3.6: Inverse Matrices and Determinants	
Oct 2	3.7: Cramer's Rule **Review and Exam #2 (Friday 10/6)**	
Oct 9	6.1/6.2: Sets and Cardinality	**Fall Break:** **Oct 9-10**
Oct 16	6.3/6.4: Addition and Multiplication Principles 7.1-7.3: Basic Probability	
Oct 23	7.4: Probability and Counting Techniques 7.5: Conditional Probability	
Oct 30	7.6: Independence and Bayes Theorem 8.1: Random Variables (Discrete)	**Withdrawal Deadline:** **Nov 1**
Nov 6	8.2: Bernoulli Trials and Binomial Distribution 8.3: Mathematical Expectation	**Veterans Day:** **Nov 10**
Nov 13	8.4: Variance, Standard Deviation Appendix P.1: Continuous Random Variables	
Nov 20	Appendix P.2/8.5: Probability Density Function (Normal Distribution)	**Thanksgiving:** **Nov 23-24**
Nov 27	Appendix P.3: Mean, Variance, and Standard Deviation **Review and Exam #3**	**Exam #3:** **Dec 7 from 7:10-9:00 pm** **(Room: TBA)**

Homework, Quizzes & Projects:

- 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.
- Instructors may assign both written homework and online homework. Online homework will be submitted through WebAssign (Cengage), an online homework system. Students may use their own computers or those in any one of the ASU computer labs. Students may also work together, but must submit their own assignments. WebAssign can be accessed from the left-hand menu in Blackboard.
- Regardless of whether you have used WebAssign previously, you will need to create a Cengage account. If you have used WebAssign before, including in MAT 210 or if you are re-taking MAT 211, you will need to login to WebAssign first using your previous login info. Then you can create your Cengage account and link the two. (You may not be required to pay again if you took your previous course recently.) Once you have linked your previous WebAssign account, or if you are a first time WebAssign user, all future logins will be with your newly created Cengage account info.
- To access your class assignments you need to use **CLASS KEY:**

Midterm Exam: There will be two midterm exams given throughout the semester, each one covering the material since the last exam. **No test grade will be dropped from your grade record**. The best possible preparation for them is regular attendance and completion of assigned homework. These exams will be done **in class**. **Your calculator memory may be viewed during any exam and will be cleared if anything suspicious is written therein.** The Instructor has the right to regard any suspicious material in your calculator memory as cheating. Makeup exams are given at the discretion of the instructor and only in the case of verified medical or other emergency, which **must be documented**. The instructor must be **notified before the test is given**.

Any student who accesses or has in sight a phone or any internet-capable device during an exam for any reason automatically receives a score of zero on the exam. All such devices must be turned off and put away and made inaccessible during the exam. Moreover, all internet-capable devices must be turned off and be made inaccessible during all exams. Anyone who accesses such a device during an exam for any reason will receive a score of 0 for that exam and possibly further disciplinary measures.

Final Exam: There will not be a cumulative final for this course. Instead, Exam #3 will be held during the MAT 211 common final exam time on **TH, 12/7 from 7:10-9:00 PM**. The place of the final exam will be announced later in the semester. 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.

Final Exam Make-up Policy: The final exam schedule 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.
1. Religious conflict.
2. The student has more than three ASU exams scheduled on the same day as the math final
3. There is a time conflict between the math final and another final exam.

Absences related to religious observances/practices: If you will be absent from class due to a religious observance or practice, it is your responsibility to inform the instructor during the first week of class. Your instructor will work with you on alternative and reasonable arrangements for any time missed.

Absences related to university sanctioned events and activities: If you will be absent from class due to participation in a university sanctioned event/activity, it is your responsibility to inform the instructor during the first week of class. Your instructor will work with you on alternative and reasonable arrangements for any time missed.

Classroom behavior: Make sure you arrive on time for class

Excessive tardiness will be subject to sanctions. **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/iPod player, text messaging, constant talking, eating food noisily, reading a newspaper will not be tolerated. The use of laptops (unless for lecture note taking), cell phones, MP3, IPOD, etc. are strictly prohibited during class. Students who engage in disruptive classroom behavior may be subject to various sanctions. The procedures for initiating a disruptive behavior withdrawal can be found at https://clas.asu.edu/resources/disruptive-behavior.

Exam	Dates	Sections Covered
Exam #1 (Wk 5)	**Monday, Sept. 11**	Sections: 15.1-15.4, EVT
Exam #2 (Wk 8)	**Friday, Oct. 6**	Chapter 3,4,5
Exam #3 (Finals Week)	**Thursday, Dec. 7th from 7:10-9:00pm** (Room TBA)	Chapters 6,7,8, Appendix P

Grading Criteria:

Point Allocation	
Exam #1	20%
Exam #2	20%
Exam #3	30%
Homework	20%
Quizzes	10%

Grading scale: A+ = [97,100]; 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 = [0,60)
There will be NO curve: e.g. a final course grade of 69.9 results in a letter grade of D.

Students Resources:

Tutor Center: The Math Tutor Center (Free of Charge) has several locations on campus. You must have a valid ASU "Sun Card" in order to be admitted. For information visit https://tutoring.asu.edu/student-services/tutoring . For additional information, including online tutoring, visit https://tutoring.asu.edu/tutor-search

Disabilities: If you have any disability that may hinder your performance, please notify your instructor as soon as possible. See the last page of this syllabus for more information.

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 (INCLUDING THE DATES OF TESTS) MAY BE MODIFIED AT ANY TIME BY ANNOUNCEMENTS MADE IN CLASS.   It is the student responsibility to attend class regularly and to make note of any change. The Instructor also reserves the right to create class policies in regards to homework due date, etc.

Departmental and University Policies and Procedures

Course Withdrawal Deadline	**Nov. 1, 2017**
Complete Withdrawal Deadline	**Dec. 1, 2017**

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. **After Nov. 1, however, you may not withdraw from this course unless you withdraw from <u>every</u> ASU course you are enrolled in this semester.**

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. 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 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.

Students with Disabilities
Disability Accommodations: Qualified students with disabilities who will require disability accommodations in this class are encouraged to make their requests to me at the beginning of the semester either during office hours or by appointment. Note: Prior to receiving disability accommodations, verification of eligibility from the Disability Resource Center (DRC) is required. Disability information is confidential.

Establishing Eligibility for Disability Accommodations
Students who feel they will need disability accommodations in this class but have not registered with the Disability Resource Center (DRC) should contact DRC immediately. Their office is located on the first floor of the Matthews Center Building. DRC staff can also be reached at: 480-965-1234 (V), 480-965-9000 (TTY). For additional information, visit: www.asu.edu/studentaffairs/ed/drc. Their hours are 8:00 AM to 5:00 PM, Monday through Friday.

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! Academic honesty is expected of all students in all examinations, papers, laboratory work, academic transactions and records. The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see http://provost.asu.edu/academicintegrity.

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**.

Policy on Threatening Behavior
All incidents and allegations of violent or threatening conduct by an ASU student (whether on-or off campus) must be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students. If either office determines that the behavior poses or has posed a serious threat to personal safety or to the welfare of the campus, the student will not be permitted to return to campus or reside in any ASU residence hall until an appropriate threat assessment has been completed and, if necessary, conditions for return are imposed. ASU PD, the Office of the Dean of Students, and other appropriate offices will coordinate the assessment in light of the relevant circumstances.