MAT 142: College Mathematics
Fall 2010 Course Syllabus

Instructor: Dr. Jenifer Boshes	**Office Hours:** M 12:00 – 1:00, T 2:00 – 3:00, W 11:00 – 12:00, Th 2:00 – 3:00 and by appointment
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Class Number: (10:30) 76868; (12:00) 76872	**Office Phone:** (602) 496-0572

Welcome to MAT 142! The purpose of this course is to relate college-level mathematics to real-life problems. We will emphasize problem-solving techniques, specifically by means of discussing concepts including proportional reasoning, geometry, set theory, probability, statistics, and finance. This course is open to students whose major does not require MAT 119, MAT 170, or MAT 210 and have completed either MAT 106 or scored at least a 60 on the Unified Placement test. This course also carries General Studies "MA" credit.

Tentative Schedule

Week	Dates	Tuesday	Thursday
1	August 16 – 20		Introduction 1.1: Problem Solving
2	August 23 – 27	1.1: Problem Solving	9.1: Percents and Taxes 7.5: Proportions and Variation
3	August 30 – September 3	7.5: Proportions and Variation (10.5: Dimensional Analysis)	4.1: Graphs, Puzzles, and Map Coloring
4	September 6 – 10 *9/6 – Labor Day Observed*	4.1: Graphs, Puzzles, and Map Coloring	4.2: The Traveling Salesperson Problem
5	September 13 – 17	Exam 1	2.1: The Language of Sets 2.2: Comparing Sets
6	September 20 – 24	2.3: Set Operations	2.4: Survey Problems
7	September 27 – October 1	2.4: Survey Problems	13.1: Introduction to Counting Methods 13.2:The Fundamental Counting Principle
8	October 4 – 8	Exam 2	14.1: The Basics of Probability Theory
9	October 11 – 15	14.2: Complements and Unions of Events	14.3: Conditional Probability and Intersections of Events
10	October 18 – 22	14.4: Expected Value	15.1: Organizing and Visualizing Data
11	October 25 – 29	15.2: Measures of Central Tendency	15.3: Measures of Dispersion
12	November 1 – 5	Exam 3	15.4: Normal Distribution
13	November 8 – 12 *11/11 – Veteran's Day Observed*	15.4: Normal Distribution 15.5: Linear Regression	**No Class – Thank You to our Veterans!**
14	November 15 – 19	15.5: Linear Regression	9.2: Interest
15	November 22 – 26 *11/25-11/26 – Thanksgiving Observed*	9.2: Interest	**No Class – Happy Thanksgiving!**
16	November 29 – December 3	9.4: Annuities	9.5: Amortization
17	December 6 – 10	Question Session / Leeway	

Cellular Phone Policy:
I assume the responsibility of ensuring each of you is in a position to be successful in this class. Part of that responsibility is to ensure that all of us, collectively, are focused on the task at hand. Therefore, I request that your cell phone is turned off and put away while you are in this class, as its usage during class is disruptive and distracting to the learning environment, both individually and as a group.

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.

Required Text:
Mathematics All Around, 4th Edition (Custom Package); by Thomas L. Pirnot; Pearson Custom Publishing
Students are expected to read relevant sections of the textbook prior to attending class.

Calculator:
At minimum, a scientific calculator is required for this course. A few of the recommended models include the TI-30, TI-34, TI-36, TI-83, and TI-84. A graphing calculator is not required. However, if you plan on taking STP 226: Elements of Statistics at the Downtown Phoenix campus, please note that a TI-84 (or other graphing calculator) is required for that course. You are expected to bring your calculator to class daily. Cellular phone calculators are not permitted in class or during an exam. Also, the sharing of calculators is not permitted during exams.

Student Success Center:
The Student Success Center, located on the first floor of University Center, will be open Monday-Thursday from 9am-4pm and on Friday from 9am-12pm. Be sure to go for help before it is too late and several days before an exam. Additional information on the Student Success Center can be found on their webpage at: http://studentsuccess.asu.edu/downtown.

Exams:
You will take 3 exams during the semester and one final exam according to the tentative dates listed below. Any changes will be announced at least one week in advance. Each exam will involve a mix of mechanical skills and conceptual reasoning. The best possible preparation for them is regular attendance and completion of assigned homework. No exam scores will be dropped.

Exam	Date	Topics on Exam
Exam #1	Tuesday, September 14, 2010	Sections 1.1, 9.1, 7.5, (10.5,) 4.1, 4.2
Exam #2	Tuesday, October 5, 2010	Sections 2.1, 2.2, 2.3, 2.4, 13.1, 13.2
Exam #3	Tuesday, November 2, 2010	Sections 14.1, 14.2, 14.3, 14.4, 15.1, 15.2, 15.3
Final Exam	See below.	Sections 15.4, 15.5, 9.2, 9.4, 9.5

Final Exam:
The final exam will be given in our regular classroom as scheduled on the final exam scheduled located at: http://www.asu.edu/registrar/registration/finals.html. According to ASU policy, final exams can be rescheduled only under the following circumstances: (1) religious conflict, (2) the student has more than 3 exams scheduled on the same day, or (3) two finals are scheduled to occur at the same time. No final exams will be rescheduled for personal reasons or non-refundable airline tickets.

Class Number & Time	Date & Time of Final Exam
Class Number 76868 (10:30am)	Tuesday, December 14, 2010; 9:50-11:40am
Class Number 76872 (12:00pm)	Thursday, December 9, 2010; 9:50-11:40am

Homework/MyMathLab:
Homework will be graded on a regular basis. You are encouraged to work together, but each individual student is required to submit his or her own work. Most of your homework will be submitted online at http://www.coursecompass.com using MyMathLab, but some written homework assignments will be collected and graded to supplement MyMathLab. All written assignments must be turned in neat, organized, and stapled if there are multiple pages. If not, your written homework will not be graded. No late assignments will be collected if you miss class for any reason, however, the approximate equivalent of one homework assignment will be dropped at the end of the semester. Written homework assignments are considered late if they are turned in after the instructor has collected them at the beginning of class. For the MyMathLab problems, it is highly recommended that you work the problems on paper, and save these exercises as part of your notes. They come in handy when reviewing for an exam or for obtaining help if you have difficulty with the material. **MyMathLab Course ID: boshes50796**

Make-Up Policy:
Make-up exams are only given in the case of documented immediate family/medical emergencies. There are no exceptions to this policy. Please note that work emergencies do not constitute family/medical emergencies. Arrangements for any make-ups must be done within one week of the exam. There are no make-ups for quizzes or homework.

Attendance:
All students are expected to come to class each day prepared to discuss assignments and material being presented in class. During class, any student can expect to be called upon to answer questions posed by the instructor and other students. Moreover, part of being prepared for class involves bringing all course materials to class, including your calculator. Statistics show that students who regularly come to class tend to do better than students who skip class every now and again. **Only four (4) unexcused absences will be allowed during the semester. The fifth absence is grounds for the student earning a grade of EN (failure due to lack of attendance) for the semester.**

How to Study:

Students often ask me for advice on how to prepare for an exam. Be sure to look over the problems we covered in class, as well as the problems assigned for homework. Make sure you can work out these problems without the aid of your notes or textbook and check to make sure that your solution is correct. If you need assistance, please meet with me, visit the Student Success Center, or work with classmates for help. If you make a mistake, be sure you understand not only the correct way to do the problem, but why your method was wrong. If you understand the reasoning behind your actions, you are more likely to remember them and be successful. I often change or modify problems just enough to keep students from memorizing.

I highly recommend working in groups. Within your group, pick problems and present them to each other. Be sure you explain each step along the way, as if you were teaching a class. If you stumble over a step, you now know the concept on which you need to focus. If you can explain through an entire problem without any help or coaching, then you probably know the concept pretty well. This does take some extra time, but if you are determined and serious about doing well in the class, this is a great way to go about doing it.

Final Grade Breakdown:

Your final grade is determined as follows:

Component	Percentage
Exam 1	17.5%
Exam 2	17.5%
Exam 3	17.5%
Final Exam	17.5%
Homework / Participation / Misc.	30%

Grade	x = Final Percentage
A+	$98\% \leq x \leq 100\%$
A	$90\% \leq x < 98\%$
A-	$89.5\% \leq x < 90\%$
B+	$87\% \leq x < 89.5\%$
B	$80\% \leq x < 87\%$
B-	$79.5\% \leq x < 80\%$
C+	$77\% \leq x < 79.5\%$
C	$70\% \leq x < 77\%$
D	$60\% \leq x < 70\%$
E	$x < 60\%$

Additional Information:

- Turn off any cellular phones prior to entering class. Blatant cellular phone usage (i.e., text messaging) during class is not tolerated and will negatively affect the student's participation grade for the semester.
- You are permitted to use your laptop during class to access Blackboard for class-related resources. Students found using a laptop during class for non class-related resources (i.e., checking e-mail or Facebook) will have his or her participation grade negatively affected.
- Classroom disturbances, including but not limited to: arriving late, leaving early, leaving during the middle of class, talking in class, and cellular phones, are not tolerated. Each student is expected to show respect for every student registered in the course. Recurring disturbances caused by an individual will result in an administrative withdrawal from the course.
- The highest standards of academic integrity are expected of all students at all times. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. We will act very harshly against any acts of academic dishonesty during quizzes or exams.
- Students with disabilities should arrange to meet with me as soon as possible to arrange for reasonable accommodations for their learning needs. Students registered with DRC must notify the instructor at least one week prior to any exam.
- Arrangements for any religious observances, ASU sanctioned activity, or ASU student athlete obligations must be arranged with the instructor at least one week prior to the event.
- No individual extra credit assignments will be offered.
- I reserve the right to make changes to this syllabus as necessary. Changes will be considered official if they are announced in class or posted on Blackboard.
- Welcome to the course! I encourage you to stay after class, visit the Student Success Center, come to my office hours, or make an appointment with me to discuss any material that is unclear to you. I wish you well in the course and all of your other academic pursuits this semester.

Key Semester Dates

Drop/Add Deadline:	Wednesday, August 25, 2010
Course Withdrawal:	Wednesday, November 3, 2010
Complete Withdrawal:	Tuesday, December 7, 2010