College Algebra

MAT 117 Syllabus
Fall - 2011

Instructor Information

Instructor Name:
College Name -
Department Name -
Arizona State University

Contact Information
Office:
Email Address:
Phone:
Fax:

Course Information

Course Description
Welcome to MAT 117! The purpose of this course is to give students a background in algebra so that they will be able to succeed in either MAT 210 Brief Calculus or MAT 170 Precalculus, depending on their major field of study. The course carries General Studies MA credit.

Course Objectives
- Students will be able to use algebraic techniques to solve a range of problems.
- Students will be able to analyze and interpret the behavior and nature of functions including linear, quadratic, polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise functions.
- Students will learn to solve systems of equations using algebraic and matrix operations.
- Students will become familiar with algebraic and geometric sequences and series and techniques used to solve problems involving sequences and series.

Prerequisites
MAT 106 or MAT 113 with a C or better or completion of the ALEKS Math Placement Test with a score of 40% or higher or completed MAT 194: EFM with skills mastered for MAT 117.

How to Succeed in this Course
- Stay ahead of schedule and make sure you are aware of all the resources available to you here in the Syllabus and in your course site.
- Check your ASU email regularly.
- Log in to the course web site every day.
- Communicate with your instructor and classmates as needed.
- Create a study and/or assignment schedule to stay on track.
- Pay attention to course landmarks so you don’t fall behind

**Evaluation Activities**

This course requires students complete four important evaluation activities:

- Success in ASU Math Study Consent Form
- ACES Pre-test
- ACES Post-test
- Engagement Survey

Your course web site includes detailed information about the evaluation activities, how long it takes to complete each one, and when each should be completed. It will take about 45 minutes total over the semester to complete all four evaluation activities. Don’t forget you will need to include your name and ASURITE ID on each evaluation activity in order to get credit for completing the task.

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**Course Materials & Structure**

**Materials**

- **Readings:** You are not required to purchase a textbook for this course. Reading materials will be provided online in each lesson as pdf chapters. If you would like to purchase a hard copy this is the text:


- **Videos:** All lecture content is delivered by web based video that can be accessed by any computer that is connected to the internet. You will be expected to locate a computer and internet connection that can handle watching web based videos. To test one of these videos, click on the link here.

- **Quizzes:** Quizzes are administered online and determine your learning path and the content materials you will receive. This could differ from your classmates depending on your understanding of the materials.

- **Knewton Online Study Center:** Once you take your quiz you will be directed to your set of learning activities in the Knewton Study Center. If you’re not sure what to do, click on the LET’S GO button for a recommendation. [HERE](#) is a graphic to help you understand how the study center works.
Problem Sets: Our class time will be devoted to group problem solving sessions. You will be expected to work with classmates to solve complex problems reflecting the materials you are learning. You are expected to come prepared with a notebook, pencil and calculator.

Exams: Once you have earned your unit badge in Knewton Study Center you should schedule your unit exam using Tutor Track (insert link) to take your exam in a proctored environment. It’s recommended you bring headphones for the exam. You must take the exam before the close date (listed in your course schedule) and there are no extensions or makeups. Based on the recommended pace of the course you should not have any trouble meeting these deadlines.

Final Exam: The final exam is comprehensive and needs to be scheduled and taken before 4:00 pm on December 14, 2011. Do not wait until the last minute to schedule your exams.

Course Design

- Click HERE to see a graphic of the course flow for 117.

Grading Policy

Studying, Preparation and outside of class time.

This is a hybrid course and therefore the majority of your work will be taken online outside of the classroom. It is recommended that you spend a minimum of 6 hours per week outside of class. All assignments and course interactions will utilize web based technologies.

Letter Grade Assignment
Graded work includes quizzes and exams, Knewton study center activities and in-class problem sets and group work.

<table>
<thead>
<tr>
<th>Point Distribution</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td><strong>4 Unit Exams</strong></td>
<td>45%</td>
</tr>
<tr>
<td>A+</td>
<td>97% or above</td>
</tr>
<tr>
<td>A</td>
<td>93% - 96.99%</td>
</tr>
<tr>
<td>A-</td>
<td>90% - 92.99%</td>
</tr>
<tr>
<td>B+</td>
<td>87% - 89.99%</td>
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<tr>
<td><strong>Final Exam</strong></td>
<td>20%</td>
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<tr>
<td>B</td>
<td>83% - 86.99%</td>
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<tr>
<td>B-</td>
<td>80% - 82.99%</td>
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<tr>
<td>C+</td>
<td>77% - 79.99%</td>
</tr>
<tr>
<td><strong>Problem Sets, Group Work, Unit Badges</strong></td>
<td>35%</td>
</tr>
<tr>
<td>C</td>
<td>70% - 76.99%</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69.9%</td>
</tr>
<tr>
<td>E</td>
<td>&lt;60%</td>
</tr>
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**Course Flowchart**
- Click [HERE](http://students.asu.edu/drop-add) to see a graphic of the course flow for 117.

**Drop/Withdrawal**
- If you feel it is necessary to withdraw from the course, please see [http://students.asu.edu/drop-add](http://students.asu.edu/drop-add) for full details on the types of withdrawals that are available and their procedures.

**Class Participation**
Class participation is mandatory. If you miss class you will not receive your problem set points for that class.