



**SYLLABUS**  
**College Algebra/**  
**MAT 117**  
**Fall 2018**

**INSTRUCTOR INFORMATION:**

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**Course Description:**

Welcome to College Algebra! The purpose of this course is to develop skills in linear and quadratic functions, general polynomial functions, rational functions, and exponential and logarithmic functions. You will also study systems of linear equations. We will emphasize problem-solving techniques, specifically by means of discussing concepts in each of these topics.

MAT 117 is a hybrid course. Many components of the course are designed to be completed in class while others are designed to be completed online. The online portion of the course is designed

**Course Objectives:**

- Students will be able to apply algebraic reasoning to solve a range of problems.
- Students will develop skills required for success in future studies in calculus.

**How to Succeed in this Course:**

- Make time for math every day.
- Staying “on track” is a critical component of student success in this course. Stay ahead of schedule and make sure you are aware of all the resources available to you that are listed in the syllabus and on the course site so you don’t fall behind.
- Check your ASU e-mail regularly.
- Log in to the course site every day.

**Assessment Objectives:**

The abilities assessed in the examinations cover a single area: technique with application.

The examination will test the ability of candidates to:

- understand relevant mathematical concepts, terminology, and notation.
- recall accurately and successfully use appropriate manipulative techniques.
- recognize the appropriate mathematical procedure for a given situation.
- apply combinations of mathematical skills and techniques in solving problems.
- present mathematical work and communicate conclusions in a clear and logical way.

## Course Topics:

### College Algebra

- Language/Vocabulary of Functions
- Transformations of Functions
- Factoring/Simplifying Polynomials
- Quadratic Functions
- Polynomial Functions
- Rational Functions
- Exponential Functions
- Logarithms
- Matrix Algebra
- Systems of Equations
- Linear Algebra

## Classroom Policies:

- Work hard.
  - Be ready to try your best every day.
  - Make mistakes often and learn from them.
  - Take responsibility of your successes and achievements.
- Be kind.
  - Respect the efforts and contributions of your classmates.
  - Respect the learning environment.
  - Respect yourself and your own process.
- Make smart choices.
  - Always be prepared for class activities.
  - Use *all* the resources available to you.
  - Realize the importance of this class and your success in it.

## Plagiarism:

It is the responsibility of the student not to deceive the instructor in any way in regard to the authorship of the work that he/she presents as his/her own. Consequences for plagiarism will be in accordance with the Arizona State University Preparatory student code of conduct. Plagiarism will be reported to the administration.

## Classroom Procedures:

- Gum, food, and drinks other than water may be permitted in class as long as they are not disruptive to classroom activities.
- Come to class prepared to participate in class activities every day.
- Remain in your assigned seat unless directed otherwise. Pencil sharpening, throwing away papers, collecting past work, etc. must take place prior to the start of class.
- Once you have entered the classroom, you have entered a learning environment and will begin completing the daily warm-up. Class time is limited and we will utilize it effectively. Socializing will not be permitted during class time.

**Late Work/Grading Policy:**

	<b>Homework</b>	<b>Academic Assignments</b>	<b>Assessments</b>
<b>Turn in</b>	On due date, at beginning of class	On due date, at beginning of class	On scheduled date in class <i>*Please make prior arrangements if you will not be available.</i>
<b>Retakes</b>	No retakes permitted on effort-based assignments.	In order to be granted a retake, you must have submitted a concerted effort on time.  Practice or other assigned study options must be completed in order to be eligible for retake as well as scheduled tutoring with Mr. Scolaro. <ul style="list-style-type: none"> <li>• 1 retake allowed</li> <li>• 96% maximum (not eligible for A*)</li> </ul> Retake must be scheduled and completed within 5 school days from grade post or within timeframe as agreed upon between teacher and student.	In order to be granted a retake on an assessment, you must have submitted on time all homework assignments related to that assessment.  Practice or other assigned study options must be completed in order to be eligible for retake as well as scheduled tutoring with Mr. Scolaro. <ul style="list-style-type: none"> <li>• 1 retake allowed</li> <li>• 96 % max (not eligible for A*)</li> </ul> Retake must be completed within 5 school days from grade post or within timeframe as agreed upon between teacher and student.
<b>Late</b>	Effort work will not be accepted after the due date.	Academic work may be turned in under the following guidelines: <ul style="list-style-type: none"> <li>• 1 day late – Maximum score of 90%</li> <li>• 2-5 days late – Maximum score of 80%</li> <li>• &gt;5 days late – not accepted</li> </ul>	Documented/excused absences: Schedule a time with Mr. Scolaro to make up the exam as soon as possible. Any exam not made up within five days of return to school cannot be made up.  Planned absences: Assessments should be taken prior to absence when possible. Please schedule a time with Mr. Scolaro in order to do so.

**Attendance/Absences:**

- Any student who is tardy 5 times to the same class will have an extra absence.
- These students will also have to serve a lunch detention.
- Every tardy thereafter will result in a lunch detention and community service.

### Grading Information

Students enrolled at ASU Preparatory Academy will receive two letter grades in each of their courses. One of the letter grades is an **academic grade** that the student's level of mastery of the course objectives. The second grade is an **effort grade** that reflects attendance, participation, discussions, or completion of practice assignments. Both of the letter grades will adhere to the following grading scale, but only the **academic grade** will be reflected on the student's final transcript and included in the G.P.A.

A*	Exceptional	97% or above
A	Exceeds	90% - 97%
B	Meets	80% - 90%
C	Approaches	70% - 80%
D	Approaches	60% - 70%
F	Falls Far Below	Less than 60%

### Materials:

In order to be prepared, students will need:

- Binder devoted to math class (1-1/2" is recommended)
  - No spiral notebooks
  - No bound notebooks
- Blue/black pens
- Pencils
- Loose-leaf lined paper
- Loose-leaf graph paper
- Dry erase markers
- Dry eraser
- Index cards (3" x 5")
- Graphing calculator
  - TI-83, TI-83 Plus, or TI-84 are recommended.
  - TI-89 and TI-92 are not permitted on tests.

**Syllabus Acknowledgement:** Please complete the syllabus signature page with the appropriate signatures acknowledging this syllabus at: <http://jscolaroasuprep.weebly.com>