



Lindsey Fleegle

MAT151 College Algebra/Algebra 5-6 Course Outline

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MAT 151 Course Syllabus

Dual Enrollment - Mountain Ridge High School and Rio Salado Community College
Rio Salado College – 2323 W. 14th Street – Tempe, AZ 85281 – (480) 517-8000

Course: MAT151
Semester: Fall 2023 OR Spring 2024

Title: College Algebra Algebra 5/6
Section: 24518 FALL or 10160 SPRING

Text: Blitzer 7th Edition College Algebra

Course Description:

This course includes the study of direct, inverse, joint, and indirect variation, linear regression, functions and relations, systems of both linear and non-linear equations, conics, matrices, logarithmic functions, exponential growth and decay, radical and rational expressions and equations, domain, range, and polynomial expressions, equations and graphs. Additionally, this course is aligned with Arizona Common Core Standards and/or national standards and supports the school-wide efforts to increase student achievement.

Course Objectives:

By the time the student completes this course of study, the student will know or be able to:

1. Analyze and interpret the behavior of functions, including end behavior, increasing and decreasing, extrema, asymptotic behavior, and symmetry.
2. Solve polynomial, rational, exponential, and logarithmic equations analytically and graphically.
3. Find real and complex zeros of polynomial functions analytically and graphically.
4. Graph polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions.
5. Determine domain and range of polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions.
6. Use transformations to graph functions.
7. Perform operations, including compositions, on functions and state the domain of the resulting function.
8. Determine whether a relation is a function when represented numerically, analytically, or graphically.
9. Determine whether a function is one-to-one when represented numerically, analytically, or graphically.
10. Determine the inverse of a relation when represented numerically, analytically, or graphically.
11. Classify functions by name when represented numerically, analytically, or graphically.
12. Determine regression models from data using appropriate technology and interpret results.
13. Read and interpret quantitative information when presented numerically, analytically, or graphically.
14. Justify and interpret solutions to application problems.
15. Compare alternative solution strategies.
16. Calculate and interpret average rate of change.
17. Model and solve real world problems.
18. Solve systems of three linear equations in three variables.
19. Solve systems of linear inequalities.
20. Explore arithmetic and geometric sequences and series.

Fees and College Credit Transfer

This class earns 4 hours of college credit. The college credits earned through Rio Salado transfer to all the Maricopa Community Colleges, NAU, U of A, ASU, and some colleges/universities outside of Arizona. To determine the transferability outside the state, please call that particular college or university. The cost is \$85/credit hour and a \$15 registration fee for a total of \$355 per semester (4 credit hrs X \$97=\$388 +\$15=\$403.00). All registration paperwork is due by Friday, August 18th.

Dual Enrollment Attendance Policy

Since full and active participation is essential to success in this course, full attendance is required. Students are not allowed to miss more than six (6) class periods per semester (excused or unexcused). Upon the 7th absence, you will lose college credit. Note: If a student is suspended (whether on campus or off campus) the days will count against his/her overall attendance. School approved school absences for clubs, sports, etc will not count toward the six absences in the course.

Canvas

Canvas will be used daily in this course. Your notes for the day will be posted on Canvas so if you are absent, you will get your notes from here. You will also open your homework AND SUBMIT homework on Canvas. Anything submitted after the due date will result in a zero. Technology problems will not be an excuse as you have ample time to finish and submit homework and have access to the internet at school daily.

Math XL

During the semester we will be using Math XL which is a computer program that will have homework or classwork to complete. Students can access this through Clever. You can access Clever through the portal or the DVUSD start page. Students will upload their work to Canvas once completed.

Absences

After an absence, a student has one school day for each day missed to make up work/tests, regardless of the number of days absent. If many days were missed, please schedule an appointment with me to formulate a plan for the completion of make-up work. Make-up work for extended absences (over 3 days) may be requested through the Counseling Office and picked up there.

Makeup Policy:

- 1 day to make up work for each day absent.
- If swept, all work due must be turned in that day to receive credit.
- All lessons are on Canvas and all assignments are on Math XL and are accessible on your iPad so you are able to work while at home.

- No late work will be accepted due to being a dual enrollment course and meeting college requirements.

- No extra credit available.

- Dual enrollment courses will follow the college departmental policies concerning late work, retakes, and academic integrity.

Disclaimer

Course content may vary from this outline to meet the needs of this particular group.

Civility Statement

College policy prohibits any conduct which is harmful, obstructive, disruptive to, or interferes with the educational process. Therefore, the faculty of Rio Salado insist that the language of any communication between students and instructors or among students meeting electronically or in person at any Rio Salado site shall maintain the level of formality appropriate to any college teaching/learning situation. Excessively informal, rude, or insulting language will not be tolerated. Students who engage in such behavior will be withdrawn from the course.

Disability Statement

Rio Salado will make reasonable accommodations for persons with documented disabilities. Notify Disability Services and Resources and your instructor of any special needs. Contact Disability Services and Resources at (480) 517-8542.

Classroom Rules and Consequences:

- Do not talk when teacher is talking.
- Be in your seat or go to sweep.
- Items only used in math class on desk (bags, purses, etc. must be on the floor)
- Come to class prepared (notebook, paper, pencil/pen, and calculator).
- No gum, food, or drink in classroom other than water.
- Electronic devices of any kind are not to be visible in the classroom UNLESS we are using them. This includes, earbuds, smart devices of any kind, and cell phones.
- Show respect for teacher and classmates.
- Do not write on/in classroom texts, desks, or walls.
- SEAT OR SWEEP!!!

Consequences:

1. Warning
 2. A phone call home
 3. A phone call home and a referral written.
- Instructor will go directly to step 3 when deemed appropriate.

Grade Book Weighting: (District Wide)

80% Assessment (tests, quizzes, projects, midterm and final exam)
20% Coursework (class work, homework)

Grading Scale

A	90 to 100%	
B	80 to 89%	Grades are rounded up at .5%
C	70 to 79%	for example, 89.5% is an A.
D	60 to 69%	
F	0 to 59%	

Homework will be assigned and each assignment will be due by the due date. There are no exceptions.

Report Cards

In an effort to conserve resources and harness the capacity of our electronic grade reporting program (PowerSchool) district schools will no longer print hard copies of report cards unless requested by individual parents. To request a hard copy of your student's report card, please contact the front office at 623-376-3000. To receive your PowerSchool login, please stop into the office with a valid photo ID.

Power School Online Access:

Grades and attendance may be accessed 24 hours a day online with your Power School access code. Access codes are available in the Counseling Office or Front Desk Monday – Friday 7:00 AM– 3:30 PM. You may check student progress regularly on the PowerSchool site using the same login for one or more students. For Mountain Ridge parents/guardians without home computer access, a computer with guest log-in capability is available in the Counseling Conference Room.

Academic Assistance/Office Hours:

In addition to the Academic Prep times built into our schedule each week, additional assistance/tutoring is provided on a weekly basis both by MRHS and individually by instructors. These office hours will be posted in my classroom, website, and/or Canvas at the start of each week. I will demonstrate to the students how to find my availability each week.

Test Retakes – Assessment Category Only - ONE retake per semester in dual enrollment courses.

Due to being a dual enrollment course, students are given ONE retake per semester. The maximum score on a retake is an 80%. The student completes another assessment of the same learning targets. The assessment to be retaken may be in the same format or a different format and will be at the same difficulty level.

To earn a retake opportunity, a student must complete all of the following:

- o Consult with the teacher
- o Submit a reassessment plan or application, if required by the teacher
- o The reassessment plan may include all formative coursework related to the content/skill assessed

Reassessment Plan

- o The student must meet with the teacher and go over the initial assessment fully before earning the opportunity to retake an assessment.
- o Any exam retakes must be completed by November 30th for first semester and by May 2nd for 2nd semester.

AI Statement

In Deer Valley Unified School District, we are committed to providing our students with the best possible education while ensuring their safety, privacy, and well-being. As part of our ongoing efforts to enhance learning experiences, we may incorporate the use of Artificial Intelligence (AI) in the classroom for students. However, it is important to approach this technology with caution and adhere to responsible data privacy practices.

DVUSD has determined that the use of Large Language Models (LLMs), such as ChatGPT, is prohibited unless clearly specified by your teacher. Specific guidelines will be provided in the assignment details. If you are unsure if the tool or website you are using is an LLM or if it is permitted on a specific assignment, please contact your teacher before submitting your work.

Daily Device Use (iPads)

Students should come to school with their iPads charged and ready to use in each class every day. Devices may not be used to record or take photos of other people without their consent. Consequences for classroom disruptions and misuse of devices will follow a progressive discipline model, beginning with a phone call home and progressing to office referrals for repeated or more serious offenses. See the Student Rights and Responsibilities consequence chart in the handbook for more specific descriptions of infractions and consequences.

Math/Science Calculator Policy

A TI-83, TI-83 PLUS, TI-84, or TI-84 PLUS calculator is necessary for the successful completion of all math classes at Mountain Ridge High School. Due to district policy students will not be allowed to use cell phones as a calculator on assessments (quizzes, test, etc.)

Recommended Supplies

- Notebook for math OR organized Notability folder
- Pencil/Pen
- Paper
- Graphing calculator TI-83, TI-83 PLUS, TI-84, or TI-84 (PLUS)
- iPad – Charged and ready to use daily.

Suggestions for Success

- Keep a great notebook with extensive notes either on paper or on your iPad. Notes can be used on quizzes so be sure you keep a good notebook on paper or electronically. You will also be graded on your notes for each unit. It is your responsibility to get notes when you are absent.
- Complete all assignments
- Ask questions
- Get extra help – before or after school by appointment
- Do not miss class