



Lindsey Fleegle

College Math/MAT 142

Room #CC407

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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: MAT 142

Title: College Math

Semester: Fall 2024

Section: See Teacher for Section Number

T *Ma e a ca* , Blitzer, 7th Edition

This course is aligned with Arizona College and Career Ready Standards and/or national content standards and supports school-wide efforts to increase student achievement.

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

1. Distinguish between a subset and a proper subset. (I)
2. Use Venn diagrams to solve applied problems involving the union, intersection, and complement of sets. (I)
3. Distinguish between experimental and theoretical probability, and use each to solve applied problems. (II)
4. Use conditional probability to solve applied problems involving dependent events. (II)
5. Use probabilities to calculate odds, either in favor of or against a particular event, and vice versa. (II)
6. Solve probability problems involving combinations and permutations. (II)
7. Organize, analyze, and display data using multiple representations. (III)
8. Calculate and interpret measures of central tendency and dispersion. (III)
9. Calculate and interpret measures of location (percentiles and quartiles). (III)
10. Solve applications using the normal distribution. (III)
11. Solve applications involving loans and amortizations. (IV)
12. Solve applications involving annuities. (IV)
13. Calculate the annual interest rate given the annual yield and vice versa. (IV)
14. Solve real-life problems using exponential growth. (IV)
15. Use appropriate formulas and units of measure for composite geometric shapes and figures from real life problems. (V)
16. Apply unit analysis skills to solve applied problems. (V)
17. Use dimensional analysis to convert units of measurement between different systems. (V)
18. Use written and verbal communication to describe process and results. (I-VI)
19. Model and solve real-world problems. (I-VI)

This class earns 3 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 \$97/credit hour and a \$15 registration fee f! at

- 1) Do not talk when the teacher is talking.
- 2) Be in your seat or go to sweep.
- 3) Items only used in math class on desk (bags, purses, etc. must be on the floor)
- 4) Come to class prepared (notebook, paper, pencil/pen, and calculator).
- 5) No gum, food, or drink in the classroom other than water.
- 6) 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.
- 7) Show respect for the teacher and classmates.
- 8) Do not write on/in classroom texts, desks, or walls.
- 9) SEAT OR SWEEP!!!

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.

80% Assessment (tests, quizzes, projects, midterm and final exam)

20% Coursework (class work, homework)

100% - 90%

89% - 80%

79% - 70%

69% - 60%

59% - 0%

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

...No extra credit

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.

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.

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.

