Deer Valley Unified School District

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MAT142/College Math
Prep: Period 7

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Math 142 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	MAT142	Title	College Math
Semester	Fall 2023	Section	24722

Text
Mathematical Ideas, Miller, Hornsby, Heeren, 11th Edition, ISBN # 9780321461117

Course Description:
Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance and geometry. Additionally, this course is designed to meet the requirements of the Arizona College and Career Ready Standards and/or national content standards and supports 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. 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)

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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)

Fees

The registration fee is $97.00 per credit (this is a 3 credit course) plus a $15.00 processing fee. All registration paperwork must be completed by Tuesday, September 12th.

Student Expectations

1. Come to class prepared.
2. Respect the speaker.
3. Let the learning process occur.
4. Electronic devices, other than a calculator, are not to be visible or used in the classroom.

Consequences

1. Warning
2. A phone call home and an after school detention with instructor.
3. A phone call home and a referral written.

   * Instructor will go directly to step 3 when deemed appropriate.

Grading

A	90 to 100%	
B	80 to 89%	
C	70 to 79%	***Grades are rounded up at .5%
D	60 to 69%	
F	0 to 59%	

The grading categories and their weights are as follows:

Assessments (tests, quizzes, projects, midterm and final exam)	80%
Assignments (classwork, homework, notebook)	20%

Dual enrollment courses will follow the college departmental policies concerning late work, retakes, and academic integrity.
There is no extra credit! No late work will be accepted due to the course being a Dual Enrollment and meeting college requirements!

Even if you choose not to pay for college credit you CAN still take the class, you just will not earn the college credits. The level of coursework is the SAME regardless if I pay or not. (This is a 16-Week College Course but we have 36-Weeks to learn the material, so it is very manageable with some dedication & studying.)

Retesting

Students may retest one chapter exam each semester after doing correctives and the teacher verifies that all the assignments from that unit are complete. The retesting and correctives must be done on the student's own time and completed before the next chapter test. The new exam grade is the higher score of the original exam score and retest score. Maximum percent allowed on retesting is 80%.

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:
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 on the back board at the start of each week. I will demonstrate to the students how to find my availability each week.

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.

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.
A student will be marked late/tardy if they enter the Zoom session late or disengages/leaves the class early.

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 every day. You may not use your device to record or take photos of other people without their consent. The consequences for the misuse of technology will follow the discipline plans of the teacher and the school.

All students will adhere to the DVUSD Student Norms in a Virtual Learning Environment and to the DVUSD Students Rights and Responsibilities Handbook.

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.

Success Suggestions:

If you need extra help, please see me as soon as possible. I am flexible, so please communicate your needs. **My office hours will be Monday - Friday beginning at 7:00 AM.** I will also be available other times by appointment if necessary. Other suggestions:

- Keep a great notebook.
- Complete all assignments.
- Ask questions.
- Do not throw away anything!
- Do not miss class.
- Think positive.

Suggested Classroom Items:

- Notebook and paper
- Pencils & eraser
- Graphing calculator (TI-84 is suggested)

Calculator Policy: A Ti-83 or above calculator is necessary for the successful completion of all math classes at Mountain Ridge High School. Students should download the 84Calc App on their Ipads if they don't have a calculator. Calculators can be used on most tests and the final exam.

Course Calendar

The calendar is listed here. Please keep in mind that the calendar is subject to change.

Week 1: Introductions/Intro to Module 1: Set Theory
Week 2: Continue Module 1
Week 3: Finish Module 1, Module 1 Exam, Intro to Module 2: Geometry
Week 4: Continue Module 2
Week 5: Module 2 Exam, Intro to Module 3: Number Systems
Week 6: Continue Module 3

Week 7: Module 3 Exam, Intro to Module 4: Algebraic Equations and Exponential Functions
Week 8: Continue Module 4, Module 4 Exam, Intro to Module 5: Statistics
Week 9: Continue Module 5
Week 10: Module 5 Exam, NBA Project
Week 11: Midterm Review, Midterm Exam, Intro to Module 6A: Financial Management
Week 12: Continue Module 6, Module 6A Exam
Week 13: Intro to Module 6B: Financial Management
Week 14: Continue Module 6B
Week 15: Module 6 TEST, Finance Project, Intro to Module 7A: Probability
Week 16: Continue Module 7A, Module 7A Exam, Intro to Module 7B: Probability
Week 17: Continue Module 7B, Module 7B Exam
Week 18: Final Exam Review
Week 19: Final Exam/Multiple Choice