

Course Info



RIO SALADO COLLEGE

A MARICOPA COMMUNITY COLLEGE

Instructor Information

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Contact Information:

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Location: C-114

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Course Competencies

Official Course Description

Limits, continuity, differential and integral calculus of functions of one variable.

Official Course Prerequisites

Prerequisites: A grade of C or better in MAT187, or an appropriate District placement.

Official Course Competencies

1. Analyze the behavior and continuity of functions using limits. (I)
2. State the definition and explain the significance of the derivative. (II)

3. Compute the derivative using the definition and associated formulas for differentiation. (II)
4. Solve application problems using differentiation. (II)
5. State and explain the significance of the Fundamental Theorem of Calculus. (III)
6. Compute anti-derivatives, indefinite and definite integrals of elementary functions. (III)
7. Read and interpret quantitative information when presented numerically, analytically or graphically. (I, II, III)
8. Compare alternate solution strategies, including technology. (I, II, III)
9. Justify and interpret solutions to application problems. (I, II, III)
10. Communicate process and results in written and verbal formats. (I, II, III)

Course Materials

Please select the type of material that this course will utilize.

APPROVED MATERIALS – This course will utilize Approved materials, like textbooks, 3rd party applications, etc.

OTHER PRIMARY MATERIALS - This course will utilize Other primary materials that has an open use license or considered fair use, which include OER materials, online resources, etc.

BOTH - This course will utilize Approved materials and other primary materials.

Required Course Materials

Title	Edition	Author
Calculus for the AP Course	3rd	Michael S

Graphing Calculator TI-83 or TI-84

Standards and Expectations

This dual enrollment course follows a college-level curriculum. High school policies may differ from the policies that apply to dual credit.

Time Requirement

You will need to dedicate significant time to this college course. For each credit hour, plan to spend at least two hours a week on homework in addition to class presentation time.

Course Calendar

Weeks

1	Unit 1 Functions and Models
2	Functions and Models
3	Unit 2 Limits and Derivatives
4	Limits and Derivatives
5	Unit 3 Differentiation Rules
6	Differentiation Rules
7	Differentiation Rules
8	Differentiation Rules
9	Unit 4 Applications of Differentiation
10	Fall Break
11	Applications of Differentiation
12	Applications of Differentiation
13	Unit 5 Integrals
14	Integrals
15	Integrals

16 Unit 6 More Integrals

17 More Integrals

18 Project

19 Review

20 Final Exam

Grading Standards

Grade	Percentage
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	Below 60%

Grades will be comprised approximately from:

Tests: 100 points each

Quizzes and projects: 25 to 100 points each

Homework assignments (WebAssign & textbook): from -5 to +5 points each

Attendance Standards

Regular attendance is important. Please keep absences to a minimum. Please attend an alternate class, if possible.

Be prepared to take missed tests/quizzes immediately upon your return to class unless you have made prior arrangements with the instructor.

Late Policy

All assigned work must be completed by designated due dates as stated in chapter assignment calendar.

*All tests will be taken as scheduled unless **PRIOR** arrangements have been made (contact can be made in person or via email).*

Equipment Use Policy

You may be assigned a computer for classroom use. You are to only use the computer in the designated websites. You are not to add or make any changes to the computer. Failure to abide by these policies will cause you to lose your computer privileges.

College Policies

Extra Credit Policy:

There are no extra-credit assignments for this class. The scheduled assignments and exams are sufficient to test understanding of the materials presented in the course.

Academic Misconduct:

Academic Misconduct includes cheating, conspiring to cheat, soliciting to cheat, attempting to cheat, plagiarism, fabrication on an assignment, or other forms of dishonest presentation.

Posting assessments on an unauthorized web site, soliciting assessment answers and the unauthorized acquisition of assessments, assessment answers, or other academic material is cheating.

Plagiarism includes, but is not limited to, the use of paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling or sharing of term papers or other academic materials. Information gathered from the Internet and not properly identified is also considered plagiarism.

We expect every student to produce his/her original, independent work. Any student whose work indicates a violation of the MCCCDC Academic Misconduct Policy (including cheating and plagiarism) can expect sanctions as specified in the college catalog (2.3.11) and online at <https://district.maricopa.edu/regulations/admin-regs/section-2/2-3#11>

Rio Salado College uses software that uncovers plagiarism from student to student and other data sources on the Internet. If a student is found to have plagiarized content, grade consequences will be applied in accordance with departmental policies.

Civility Policy:

The faculty of Rio Salado place a high value on the importance of general ethical standards of academic behavior and expect that communication between students and instructors or among students shall maintain the level of formality and mutual respect appropriate to any college teaching/learning situation. Language or behavior that is rude, abusive, profane, disruptive, or threatening will not be tolerated. Activity of this type is Academic Misconduct as defined in MCCCDC Policy AR 2.3.11. Student engaging in such behavior will be removed from the course with a failing grade. Additional sanctions may be applied pursuant to AR 2.3.11.

Refund Policy:

Refunds are not automatic. Students who drop courses within the refund period are eligible for a reimbursement of appropriate tuition. Deadlines and details are available online at <http://www.riosalado.edu/cashier/Pages/refund.aspx>.

Classroom Accommodations for Students with Disabilities

In accordance with the Americans with Disabilities Act, the Maricopa County Community College District (MCCCDC) and its associated colleges are committed to providing equitable access to learning opportunities to students with documented disabilities (e.g. mental health, attentional, learning, chronic health, sensory, or physical).

Visit <https://district.maricopa.edu/mandatory-drs-title-ix-syllabus-statements> for more information.

Addressing Incidents of Sexual Harassment/Assault, Dating/Domestic Violence, and Stalking

In accordance with Title IX of the Education Amendments of 1972, MCCCDC prohibits unlawful sex discrimination against any participant in its education programs or activities. The District also prohibits sexual harassment—including sexual violence—committed by or against students, District employees, and visitors to campus. As outlined in District policy, sexual harassment, dating violence, domestic violence, sexual assault, and stalking are considered forms of "Sexual Misconduct" prohibited by District policy. Visit <https://district.maricopa.edu/mandatory-drs-title-ix-syllabus-statements> for more information.

Tuition Assistance

Tuition Assistance is available to students enrolled in a Rio Salado College dual enrollment courses who demonstrate financial need. Details are available online at <http://www.riosalado.edu/dual/>

Student Responsibility

The student is responsible for the information outlined in the syllabus. The student is also responsible for knowing the Rio Salado College policies in the college catalog and the student handbook available online at <http://www.riosalado.edu/dual/>

Disclaimer

Course content and syllabus may vary from the course calendar listed above in order to meet the needs of the particular group in this course section.