

Course Info



RIO SALADO COLLEGE

A MARICOPA COMMUNITY COLLEGE

Instructor Information

Name: Steven Felling B.S.E.E., M.A.Ed.

Contact Information:

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Location: C-114

Office Hours: 3:30pm-4:30pm

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Course Competencies

Official Course Description

Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series.

Official Course Prerequisites

Prerequisites: A grade of C or better in MAT220, or MAT221, or equivalent.

Official Course Competencies

1. Evaluate indefinite, definite and improper integrals using various algebraic, trigonometric and numerical techniques. (I, II)
2. Solve applied problems taken from the sciences using integration. (I, II)
3. Analyze curves in the plane described using parametric and polar equations. (III)
4. Define, classify, and analyze conic sections. (III)
5. Determine the convergence or divergence of sequences, series of constants, and power series. (IV, V)
6. Compute polynomial approximation and power series representation of elementary functions using derivatives and integrals. (V)
7. Compare alternate solution strategies, including technology. (I, II, III, IV, V)
8. Communicate process and results in written and verbal formats. (I, II, III, IV, V)
9. Justify and interpret solutions to application problems. (I, II, III, IV, V)

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 AP	1st	Larson

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	Lessons
1	Unit 7 Techniques of Integration
2	Unit 7 Continued
3	Unit 8 Further Applications of Integration
4	Unit 8 Continued
5	Unit 9 Differential Equations
6	Unit 9 Continued
7	Unit 9 Continued
8	Unit 10 Parametric and Polar
9	Unit 10 Continued
10	Spring Break
11	Unit 11 Infinite Sequences and Series
12	Unit 11 Continued
13	Unit 11 Continued
14	Unit 11 Continued
15	AP Exam Review
16	AP Exam Review
17	AP Exam Review
18	AP Exam Review
19	Project
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: 50 points each

Projects: 25 to 100 points each

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

See class policies posted in Schoology for semester grading policy (40% for each quarter and 20% for the semester exam).

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 the designated due dates as stated in unit assignment calendar.

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

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 (MCCCD) 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, MCCCD 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.