

Math 181
Fall, 2008

Instructor: Joan Sholars
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Office Hours: MW 9:00 – 9:30 a.m.
MW 12:15 – 12:45 p.m.
MW 4:45 – 5:15 p.m.
TTh 9:00 – 9:30 a.m.

Text: *Thomas' Calculus Early Transcendentals*, 11th edition by Weir, Hass, Giordano
Student Solution Manual Optional

Calculator: Highly recommended TI-84, TI - 86 or TI-NSpire

Attendance: Regular attendance is required. If you are absent during the add period (first two weeks of school), you will be dropped and someone on the waiting list will be added. If you are absent more than three times, you could be dropped. You are responsible for any material covered during your absence.

Homework: Homework is assigned daily. Homework from the text will be collected on exam days and graded for completeness. Other homework is due as stated on the problem. No late homework accepted! The lowest homework grade will be dropped.

Quizzes: Quizzes will be given as scheduled on the timetable. No make-ups on the quizzes. The lowest quiz grade will be dropped.

Exams: Exams will be given as scheduled on the timetable. No make-ups on the exams. If the final exam percentage is higher than the lowest exam grade, it will replace the lowest exam percentage.

Final Exam: The final exam is comprehensive and will be given as schedule in the schedule of classes. Failure to take the final will result in an "F" for the course.

Computer Labs: There will be at least 3 labs using MAPLE during the semester.

Excuses include but are not limited to:

Yes – I missed because I was ill is an excuse!

Yes – I missed because I had a flat tire is an excuse!

Yes – I missed because I had a doctor (dentist) appointment is an excuse!

Grading:	3 exams @ 15% each	45%
	Quizzes	15%
	Labs	6%
	Homework	9%
	Final Exam	25%

90% and above	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
Below 60%	F

Cheating Policy:

Acts of cheating and plagiarism are considered serious violations of the Mt. San Antonio College Student Discipline Policy, AR & P Section 609. All incidents of cheating and plagiarism will be reported to the Student Life Center. Cheating or plagiarism is the act of misrepresenting the work of someone else as your own or assisting another student by providing them with answers to exams or written work that is not their own. This includes copying from another, use of stolen exams, instructor's notes or test key, and failure to use quotation marks and citing the source when using the written work of another, including internet sources.

If a student is caught cheating on an exam or a quiz, that student **will receive an "F" for that exam or quiz that cannot be replaced or dropped** and could result in disciplinary action such as suspension or expulsion. Students are encouraged to review both the Academic Honesty Policy and the Student Discipline Policy which are printed in the College catalog for further clarification.

Course Objectives:

At the end of this course, a student should be able to

- Evaluate a definite and indefinite integral using
 - Substitution
 - Parts
 - Trig substitution
 - Partial fraction decomposition
- Find the area between two curves using polar coordinates.
- Determine whether a series is convergent or divergent using
 - Geometric series
 - P-series
 - Comparison test
 - Ratio test
 - Root test
 - Alternating series
 - Integral test
- Find parametric and/or symmetric equations of a line.
- Find an equation of the plane.
- Set up and solve application problems for integration
 - Volume
 - Surface area
 - Arc length
 - Work
 - Centroid
 - Fluid pressure