

Math 180
Calculus and Analytic Geometry
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
Student Solutions Manual – Optional
Calculator: Highly Recommend: TI-86, TI – 84, or TI-NSpire

Attendance: Regular attendance is mandatory. If you are absent during the first two weeks (the add period), 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, but it is your responsibility as a student to drop if you decide to quit attending the class. You are responsible for the material covered in class during your absence.

Homework: Homework will be assigned from the text on a daily basis, but will be collected and graded on exam days. I will only be checking to see that at least one problem was done from every section assigned. Other homework problems will be collected as stated on the problems. I will answer homework questions at the beginning of class. The lowest homework grade will be dropped. **No late homework accepted! No Excuses! (Yes – I missed because I was ill is an excuse!)**

Quizzes: Quizzes will be given as stated on the timetable. The lowest quiz grade will be dropped. **No make-up quizzes will be given. (Yes – I missed because I had a flat tire is an excuse!)**

Exams: Exams will be given as stated on the timetable. **No make-up exams will be given!** If the final exam percentage is higher, it will replace the lowest exam percentage.

Final Exam: The final exam is cumulative and will be given at the time given in the Schedule of Classes. Failure to take the final will result in an “F” for the course. If the final exam percentage is higher, it will replace the lowest exam percentage.

Computer Labs: We will use MAPLE for our computer labs. There will be at least three computer labs for the semester.

Grading:

3 exams @ 15% each	45%
Quizzes	15%
Homework	10%
Labs	5%
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 a **“F” for the course** 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 the derivative of a function using the limit definition.
- Sketch the graph of a function using
 - Minimums and maximums
 - Concavity
 - Asymptotes
 - Domain and range
- Set up and solve a related rates problem.
- Set up and solve an optimization problem.
- Evaluate a definite and indefinite integral using
 - Rules
 - Substitution
 - Parts
- Differentiate expressions using
 - Product rule
 - Quotient rule
 - Chain rule
 - Implicitly

To be successful in Math 181, a student needs to be able to differentiate functions, integrate functions, and sketch graphs. Math 181 will introduce applications of integration and build on this basic knowledge of integration facts with new techniques. There is no review in Math 181 – you start with new material on day 1. Therefore, a student is responsible for all material learned in 180.