MATH 160 Course Policies and Procedures

"The first requisite for success is to develop the ability to focus and apply your mental and physical energies to the problem at hand - without growing weary. Because such thinking is often difficult, there seems to be no limit to which some people will go to avoid the effort and labor that is associated with it....."   Thomas Alva Edison (1847-1931)

"There is no royal road to geometry." (*or calculus!*)   Attributed to Euclid (325 – 265(c) BCE)

Instructor: Lori Ziegelmeier   **E-mail**: ziegelme@math.colostate.edu

Office: Weber 10   **Office Hours**: To Be Determined

Website: http://www.math.colostate.edu/~ziegelme/

Course Coordinator: Prof. Ken Klopfenstein, Weber 116, 491-6573, kenk@math.colostate.edu

Prerequisite: Algebra proficiency
MATH 126. Students who have not completed MATH 126 by 9 PM Monday, 1/26, must drop.

Corequisite: MATH 124. MATH 124 is an enforced prerequisite for MATH 161.
You must complete MATH 124 to be allowed to take MATH 161.

Registration Deadlines: Register for lecture and lab in the same time slot.
Last day to satisfy prerequisites: Monday, January 26
Last day to add: Monday, January 26
Last day to "free" drop: Wednesday, February 4
Last day to W-drop: Monday, March 23

Textbook: Weir, Hass, and Giordano. *Thomas' Calculus, Eleventh Edition*. Pearson/Addison Wesley, 2005. You are expected to study the text as the primary source of information. Class sessions supplement the text.

Calculator: You will need an advanced scientific/graphic calculator that can produce traceable graphs, draw lines tangent to a graph, zoom in on a graph, and accept simple programs. While no specific make or model of calculator is required, the calculator labs and class demonstrations will be based on the Texas Instrument TI-84®. You will be expected to use your calculator in class and to complete calculator labs described below. Some questions on quizzes and exams will require a calculator. **Please bring your calculator to class every day**.

Course content: Limits, continuity, differentiation, and integration of elementary functions with applications. This material is found in Chapters 1 – 6 of the text.

Course goals: The goals of this course are for you to
• understand the concepts of calculus (explain "why?" and "what's going on?");
• become proficient with the techniques, calculations, and procedures characteristic of calculus;
• be able to use techniques from calculus to model "real-world" situations and solve "applied" problems; and
• be able to write complete, well-organized, logically correct solutions to problems and responses to questions.

Work Load: MATH 160 is a demanding course. Dedicated, sustained work is the key to success. Expect to study at least 2 or 3 hours outside of class for each hour in class (8 – 12 hours per week). Work smart. Study the textbook. Do the homework. Review your graded homework and quizzes. Join a study group. Use the Study Guides. Go to your instructor's office hours. There are also tutoring options available for those who need extra help. Talk to your instructor about tutoring options.

Special Needs: If you have special needs, including needing special accommodations for taking exams, please discuss your situation as soon as practical with your instructor or the Course Coordinator.

Mid-term exams: There will be three common mid-term exams given at 5:15 – 7:00 PM on Thursday, February 12, Thursday, March 12, and Thursday, April 16. These exams will be in two parts. Part A will emphasize applications and concepts. You will be expected to use your calculator on Part A. Part B will emphasize basic facts and procedures. You will *not* be allowed to use a calculator on Part B. Mid-term exams will be scored on the basis of 100 points. Each of the two parts will be scored on the basis of 35 – 65 points. **Bring your calculator to exams**.

An alternate exam time will be scheduled for students who have an ***unavoidable, documentable*** time conflict with an evening mid-term exam. Details will be announced well in advance of each exam.

Final Exam: The common final exam is Tuesday, 5/12, 3:40 – 5:40 PM. The final will cover the entire course and will be scored on the basis of 200 points. The final will be a one-part exam and you will be expected to have your calculator available. However, most questions are to be answered without relying on a calculator. To earn credit for solving one of these problems you must show clearly how you solved it without relying on your calculator. Even when a problem is to be solved without a calculator, you may and should use your calculator to gain insight into the question and to check your work.

Attendance at the final exam is required. (Don't ask to take the final early or late!) If you have three or more final exams on the same day you may negotiate a time change with the instructors involved. If the parties involved cannot find a mutually agreeable time, the Registrar's Office indicates which exams must be rescheduled. If you have three exams on the same day, talk with instructors involved at least 4 weeks in advance. Unless you happen to be taking two calculus courses, *you must take the MATH 160 final exam at the scheduled time*.

Homework and Quizzes: Homework will be assigned almost every day in class. The assignments will be written up on the board at the end of class and can also be found on the course website. It will be collected the next day of class unless otherwise indicated. This is to insure that students are continually keeping up with new material and working diligently. Some homework assignments will be graded, some will be collected but not graded, and some will not be collected.

Graded homework will be scored on the basis of 10 points. Seven (7) points will be assigned for completeness (a serious, coherently presented attempt on every problem). Three (3) points will be assigned for correctness as follows: Three problems will be graded for correctness. These three problems will be graded 0 or 1 point each. To earn a score of 1, a solution must be essentially correct and clearly and completely presented. You will be assigned 7 points for each ungraded homework assignments that is handed in on time and essentially complete. Missing homework will be scored 0 points. *Homework is due at the beginning of class and will not be accepted late.* If your instructor suspects copying from a solutions manual, she reserves the right to give that assignment a score of 0 points.

There will be frequent unannounced short, in-class quizzes. There will be two kinds of quizzes: Homework Quizzes and Concept Quizzes. Homework Quizzes will be based on assigned homework. Concept Quizzes are designed to assess your understanding of important concepts. Quizzes will be scored on the basis of 10 points using standards similar to those used to grade exams. Exams will include questions similar to those on Homework and Concept Quizzes.

Missed quizzes can be made up only in the case of absence because of participation in official university activities, documentable illness, or other extenuating circumstances.

The top 80% of your scores on homework and quizzes will count for your final grade. Homework and quizzes will count 75 points toward your final grade as described below.

Calculator Labs: There will be several (four to six) laboratory investigations that require using a scientific/graphic calculator to explore concepts from calculus. A written report is required for each investigation. Lab reports will count 75 points toward final grade.

Grading: The 650 points possible in this course are calculated as follows:

Point Total = Homework & quizzes (75 pts) + Lab reports (75 pts)
                   + 3 Mid-term exams (300 pts) + Final exam (200 pts)

You must earn a passing grade (D or above) on the final examination to get a grade above D in MATH 160. In other words, if your grade on the final exam is F and you have a total of 357 or more points, your final grade will be a D. If you earn a grade of D or above on the final exam, your final grade will be determined from your Point Total using a grading scale *no more restrictive* than the following:

90% – 100% .... 585 – 650	A		55% – 60%	357 – 389	D
80% – 89% .... 520 – 584	B		less than 55%	0 – 356	F
60% – 79% .... 390 – 519	C				

Plus/minus grades will be assigned only in exceptional situations. A grade of incomplete (I) will be assigned only in extenuating circumstances (beyond the student's control and could not reasonably have been anticipated or avoided) and with approval of the Course Coordinator and the Undergraduate Director.

Repeat/Delete: Undergraduate students may repeat a course in which they have received an unsatisfactory grade. Only the grade earned when the course is repeated counts toward the GPA. However, this option can be used in no more than three courses totaling no more than 10 credits. *If you are not succeeding in a course it is almost always better to W-drop than to use the Repeat/Delete option. One of the few exceptions is when dropping the course would result in a loss of financial aid.* In cases where extenuating circumstances prevent you from successfully completing a course, an incomplete (I) grade might be a possibility and a better choice than Repeat/Delete. See the CSU General Catalog (available on line) for the University Repeat/Delete Policy. Do not hesitate to seek advice from your instructor, the Course Coordinator, or your Academic Adviser.

Academic Appeals: Concerns about the course or any of your instructor's decisions that affect your success in the course should first be discussed with the instructor. Issues that cannot be resolved with the instructor should be discussed with Prof. Klopfenstein, MATH 160 Course Coordinator (office: Weber 116, phone 491-6573, e-mail: kenk@math.colostate.edu). Concerns about the course may also be discussed with Prof. Gerhard Dangelmayr, Undergraduate Director. To see Prof. Dangelmayr, make an appointment in the Mathematics Department Office (Weber 101).

The University Policy on appeals of academic decisions, including grade appeals, is published under "Student Rights and Responsibilities" in the current CSU General Catalog.

Policy on Academic Honesty: The University Policy on Academic Integrity (see CSU General Catalog) is enforced in this course. Misrepresenting someone else's work as your own (plagiarism) and possessing unauthorized reference information in any form that could be helpful while taking an exam are examples of cheating. Submitting work from a Solutions Manual or an on-line homework web site as your own are examples of plagiarism. Students judged to have engaged in cheating may be assigned a reduced or failing grade for the assignment or the course and may be referred to the Office of Conflict Resolution & Student Conduct Services for additional disciplinary action.

MATH 160 Topic Outline & Schedule
Spring Semester, 2009

Week 1	1/19 – 1/23	Ch 2 Limits and Continuity	Monday, 1/19. University Holiday
Week 2	1/26 – 1/30	Ch 2 Limits and Continuity	Monday, 1/26. Last day to satisfy prerequisites Monday, 1/26. Last day to add
Week 3	2/02 – 2/06	Ch 2 Limits and Continuity	Wednesday, 2/04: Last day to "free" drop
Week 4	2/09 – 2/13	Chs 2 & 3 Tangents & Derivatives	Thursday, 2/12, 5:15 - 7:00 PM. First common midterm exam. Location tba. Class will not meet Friday, 2/13.
Week 5	2/16 – 2/20	Ch 3 Differentiation	
Week 6	2/23 – 2/27	Ch 3 Differentiation	
Week 7	3/02 – 3/06	Ch 3 & 4 Applications of Derivatives	
Week 8	3/09 – 3/13	Ch 4 Applications of Derivatives	Thursday 3/12, 5:15 - 7:00 PM. Second common midterm exam. Location tba. Class will not meet Friday, 3/13.
	3/14 – 3/22		Spring Break
Week 9	3/23 – 3/27	Ch 4 Applications of Derivatives	Monday, 3/23. Last day to W-drop
Week 10	3/30 – 4/03	Ch 4 & 5 Antidifferentiation & Integration	
Week 11	4/06– 4/10	Ch 5 Integration	
Week 12	4/13 – 4/17	Ch 5 Integration	Thurs. 4/16, 5:15 - 7:00 PM Third common midterm exam. Location tba. Class will not meet Friday, 4/17.
Week 13	4/20 – 4/24	Ch 6 Applications of Integration	
Week 14	4/27 – 5/01	Ch 6 Applications of Integration	
Week 15	5/04 – 5/08	Ch 6 Applications of Integration	
Week 16	5/11 – 5/15	Final Exam Week	Tuesday, 5/12, 3:40 – 5:40 PM Common final exam. Location to be announced.

Classroom Expectations and Common Courtesies

1. Come to every class. Listen. Be ready and willing to contribute (constructively) to class discussion. Be ready to respond to questions – even if your response is "I don't know; let me think about that a minute."
2. ALWAYS have pencil and paper ready in class – even if you don't take notes.
3. ALWAYS bring your calculator to class – and have it available.
4. **Turn off your cell phone**.
5. Don't read the paper, do homework, solve SODOKU puzzles, play games on your calculator, surf the web, or listen to your i-pod in class.
6. Avoid social conversations with classmates during class.
    Brief conversations about what's being discussed in class are OK.