Calculus I MAT 201 – G11 **Syllabus** Spring, 2011

Instructor name: Harry S. (Steve) Mills Office: Ed Beaty Hall, 134K Phone: (970) 339-6238 or 1-800-301-5388x6238

Required Course Materials and Resources:

Text: Calculus by Stewart, 6th Edition

E-Mail: Use E-Mail tool on Course Website, by clicking on "Classlist" link and then clicking on my name in the listing. Emergency e-mail: *steve.mills@aims.edu*

Course Website:

Login at http://www.aims.edu/student/index.php Click on **My Courses** tab. Select this course from the list.

Please see the Course Website for this syllabus, course schedule, assignment list, lecture notes, practice tests, homework and test solutions, and other information.

Unlined Paper for homework: This is important for my ability to read your work and for most students' math writing to mature to the next level. Don't worry about writing too big or too pretty. Just write clearly.

Course dates and times: 1/10/11-5/3/11, , 12:10-1:00 PM MTWRF **Course location:** Ed Beaty 133

Office Hours: See last page of this document or Course Website.

Catalog course description and prerequisites: Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals. Trigomometric functions are included. Prerequisite: "C" or better in MAT 121 and MAT 122, 80 or above on Accuplacer College Math Test, or 28 on the math portion of the ACT test, or 740 on the math portion of the SAT test. Five credits.

Grades:

Grading:	
4 Chapter Tests:	60%
Final Test:	20%
Homework:	20%

Grading scale:				
90%-100%	А			
80%-89%	В			
70%-79%	С			
60%-69%	D			
Below 60%	F			

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Chapter Tests: At the end of each of Chapters 2-5, there will be an in-class Chapter Test. Your Test Grade is the average of your Test Scores (as a percent). I will replace your lowest Test Score with the Final Test score.

Final Test: At the end of the course, there will be an in-class Final Test, at a specific time to be announced. Your Final Test Grade will be figured as a percent.

Homework: Your final homework grade will be based on 85% of the available points (approximately 600 points available, 10 per assignment). So if you're getting 85% each assignment, on average, you will earn 100% credit for the homework segment.

Virtually every day, you will submit (well-)written homework. Each assignment is worth 10 points. No late assignments will be accepted.

I will typically grade 3 exercises.

A typical point system (rubric) I might use:

Context of the paper, overall – 2 points per assignment (*Someone reading your work shouldn't need to open the book to know what's being asked and how it was answered.*). If you are lazy about explaining your work, I'll write a big 'C' at the top, and deny you these 2 points. This includes most of the graphs used in a problem. Give a rough-and-ready rendering of these, so your work stands on its own, when you're studying, later.

Solid supporting work (clear, complete) -1 or 2 points per exercise **Correct Answer** -1 or 2 points per exercise **On-Time Delivery** -1 point for the whole assignment.

Make sure that your homework is...

- ... on unlined paper (copier paper, or the back of already-printed-on pages).
- ... written on one side of each page (I won't even look at the back of any page.)
- ... complete (including question instructions)
- ... clear (show the steps!)
- ... stapled in the top left-hand corner (if the front is facing up)
- ... submitted with problems in the proper order. I won't go hunting for missing problems. If they're not where I expect them, I won't find them.

Grades Miscellany:

Incomplete ''I'': You must successfully complete 75% of the course *and* have a compelling reason for an Incomplete.

Add/Drop: Last day to Add/Drop this course is January 26th.

Withdraw ''W'': The Grading System definition of a W is: "WITHDRAWAL: Indicates withdrawal from the course. Last day to withdraw is April 11th. No Ws given after that date!

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Audit Grade: See the catalog. The student must obtain instructor approval by the Drop/Add deadline for the course.

Before Class:

- Always read the next section before class. The Course Outline pretty much tells you what's next (In general, we're starting in 1.1 and cruising straight through to 6.5.)
- Jot down the theorems and definitions that will be covered. This will leave you free to learn more about what they mean and how to *use* them, which is what I want to talk about.
- Attempt a few exercises, to see what you're up against.
- Budget some time to ask questions 1-on-1 (or in groups) in my office. While I am happy to answer a few homework questions, I *still* collect the homework at the beginning of class. *Right* before class (11-ish) is a popular time. If we get "too big," I will shift one or more office hours to a classroom.

After Class:

- Start the homework as soon as possible.
- Any exercise you can't do, start a whole new piece of paper and continue with the exercises. Don't spend too much time on a problem that's a challenge. Instead, write down a few ideas about it, and move on to the next problem on a fresh sheet of paper.

Make-up test: I only do make-up tests for college-excused absences. If you're sick, you better see a doctor and have some documented proof.

Calculators: A scientific calculator (TI-30 II is available in bookstore) is required for this class. A graphing calculator is recommended but not required. (Homework problems requiring a graphing calculator may be done using an online grapher instead.) Unless otherwise specified in class, calculators are to be used only to calculate: add, subtract, multiply, divide, and calculate logs, roots, powers, trig functions and factorials. You will be required to show all other work on homework and tests. I will not give credit for answers given without work shown. Graphing calculators are not allowed on tests. Cell phones are not allowed on tests, even if they have a built-in calculator.

Academic Honesty: You may get help with your homework, but work on a test is to be yours alone. You will not be given credit for any work that appears to be dishonest. (This includes copying, cribsheets, use of graphing calculators or cell phones, corrections made after the test is graded, as well as any other unauthorized source of information.) If there is a pattern of such work on a test, you will receive a grade of 0 on that test. If I have misjudged you in such an instance, please come and talk to me.

Student Conduct: (Aims Policy Manual #5-601) (see the college website for additional information about this policy): Students are expected to practice academic honesty. Each student is responsible for contributing to a positive learning environment in classroom situations. Students who conduct themselves contrary to the best interest of the class as a whole may be dropped from the roster. Students should refrain from expressing

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derogatory opinions concerning race, gender, ethnicity, disability, sexual orientation, or any other personal characteristic, and should avoid using obscene language. They must refrain from any form of cheating, plagiarism, or knowingly furnishing false information to the college.

Because respect for the learning process is critical, no behavior that disrupts another student's ability to learn will be tolerated. The first example of such behavior will result in a warning. The second incident will result in expulsion.

Cell Phone Policy: If you have a cell phone with you in the classroom, make sure the ringer or beeper is off unless you are expecting a call due to an emergency situation. In that case you must inform the instructor in order not to disrupt the class unexpectedly.

Children on Campus: (Aims Policy Manual #3-600) (see the college website for additional information about this policy): All children on campus under the age of sixteen (16) must be under the direct supervision of a parent or legal guardian unless they are involved in a specific College approved and supervised activity.

Tutoring: Drop-in, individual, and guided study group tutoring is available to currently enrolled Aims students. For available subjects, hours, and additional questions, please call 339-6541 for Greeley, 667-4611 Ext. 3304 for Loveland, and 303-718-5905 for Fort Lupton services. Also, please visit our website at <u>http://www.aims.edu/student/learning-commons/tsi/index.php</u> for current information. The Computer Learning Lab staff provides assistance in various disciplines, including CIS, Business Technology, Graphics Technology and various programming languages. There are a large number of computers loaded with current software available for student use. Please visit the website for additional information: <u>http://www.aims.edu/student/learning-commons/complab/</u>

Disabilities: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Disability Access Services Office privately to discuss her/his specific needs. Please be aware that before most accommodations can be allowed in class they must be approved through the Disability Access Services office. Students should contact the Disability Access Services office at 970-339-6388 or disabilities@aims.edu to set up an appointment to discuss the process of requesting reasonable accommodations. We are located in the College Center in the One-Stop Shop area on the 1st floor.

General Education Competencies: This course satisfies the following State GE categories: Critical Thinking, Technology, and Mathematics.

Learning Outcomes:

Solve selected algebraic and trigonometric problems. Identify limits of Algebraic, Trigonometric, and Composite Functions Solve for the derivatives of Algebraic, Trigonometry, and Composite Functions Solve for the derivatives of selected functions. Use the appropriate algorithm(s) (including product, quotient, and chain rules) to find derivatives of algebraic, trigonometric, and composite function.

Find derivatives of implicitly defined functions.

Use the first and second derivatives of functions to find extrema, points of inflection, sketch the graph of functions.

Set-up and solve applied problems selected by the instructor.

Find indefinite and definite integrals - Algebraic

Read, analyze, and apply to problems, written material related to the study of calculus Write and speak clearly and logically and essays about topics related to calculus.

Demonstrate the ability to select and apply contemporary forms of technology to solve problems or compile information in the study of calculus.

	Monday	Tuesday	Wednesday	Thursday	Friday
7:00 - 8:00		By Appt	By Appt.	Dy Appt	
8:00 - 8:45		Бу Аррі.	Office	Ву Аррі.	
8:45 - 10:00	MAT 121 G11 EDBH 133	Office	MAT 121 G11 EDBH 133	Office	MAT 121 G11 EDBH 133
10:10 - 11:00	Office 10:00 – 11:45	Dr. Annt	Office 10:10 – 11:30	By Appt.	Office
11:10 - 12:00		Бу Аррі.	Lunch 11:30 – 12:00	Lunch	10:00 - 11:45
12:10 - 1:00	MAT 201 G11 EDBH 143				
1:10 - 2:00	Lunch	Lunch 1:00 – 1:30	Office	Office	Lunch
2:10 - 3:00		Office 1:30 – 3:00	By Appt.	By Appt.	

My Weekly Schedule:

Appointments are available if you can't make my office hours. If I start getting regular appointments at unlisted hours, I reserve the right to modify this schedule. Hours marked "Office" are times I set aside for students, specifically.

Office hours are set up to get 'most everyone help before or after class meets, to help those who are commuting to class with their schedules. I'm also setting office hours on Tuesday and Thursday, for students who have that block of time open, otherwise.

Any time you drop by and I'm in my office, I'm usually ready to help you with questions, and I'm in and around the office most of the day.