Math 180: Calculus for Scientists and Engineers I, Spring 2015

Class Time & Place:	MWF 2:00pm-2:50pm in Eng E205
Instructor:	Hilary Freeman
Email:	freeman@math.colostate.edu
Office:	Weber 114
Super Amazing Course Assistant:	Vance Blankers (blankersv@gmail.com)
Office Hours:	See Canvas

Prerequisites: Math 124, Math 126

Calculator: TI-83 or better recommended. Be aware that calculators will not be allowed on some quizzes and parts of exams.

Textbook: Weir and Hass. Thomas' Calculus, Thirteenth Edition, Pearson Education Inc, or Thomas' Calculus, Second Custom Edition for CSU.

Important Dates:

Last day to add without override:	Jan 25	Last day to add with override:	Feb 4
Last day to drop:	Feb 4	Last day to W-drop:	March 23

Grading:

Exam 1:	100
Exam 2:	100
Exam 3:	100
Final Exam:	200
Labs:	65
Quizzes & Other Class Assignments:	55
Written Homework:	100
Online Homework:	+ 80
Total:	800

Grade Distribution:

A: 716-800
B: 636-715
C: 556-635
D: 476-555
F: 0-475

****Important Notes*****

1. ***You receive the grade you earn in this class, and the grade distribution stands. For example, if your points total to 715, then you will receive a grade of B.***
2. ***You have no more than 2 weeks after a homework due date or exam/quiz date to argue points back or have your score altered due to a recording error. Please take prompt responsibility for ensuring your grades are properly recorded in RamCT.***
3. ***If your final exam grade is less than 50%, your final grade in the course can be no higher than a D.***

Technology Labs: There will be 2 technology labs throughout the semester that will total 70 points (35 points per lab). To compute your lab points, we will take the minimum of your score and 65.

You have the option to use any technology you like for each lab (graphing calculator, wolframalpha.com, mathematics software, Excel, etc.), however be aware that Hilary and Vance will not have experience with all possible technologies (we are familiar with graphing calculators, wolframalpha.com, and Maple). If you decide to use technology with which we are not familiar, do so at your own risk. We cannot provide support for all possible technologies. Note that the software Maple is installed on the machines in the Weber 205 computer lab, and you will receive a class login. The opening hours of Weber 205 are posted at the door.

Labs must be printed or in clearly legible hand-writing and turned in on the posted due date. Put your name and CSU-ID as well as your section number on the top. Always keep a copy of your lab. We may ask you to provide this copy in special circumstances (for instance, if you forgot to put your name on the lab).

Online Homework: We will use an electronic system (WebWork) for online homework assignments. The link to WebWork is on RamCT or you can go directly to
`https://courses1.webwork.maa.org/webwork2/colostate-math160/`.
WebWork accepts answers that are not simplified. Be aware that we may expect you to simplify your answers on assignments, exams, and quizzes. Make sure you know standard trigonometric values!

WebWork assignments will open on 10 days prior to due dates. In addition there will be 3 *mastery* WebWork assignments (one for limits, one for derivatives, and one for integrals). Each *mastery* assignment will consist of 10 problems.

Scoring WebWork:
Most WebWork problems (with the exception of any True/False or matching-type questions) will allow for unlimited tries. There will be 87 WebWork problems throughout the semester, and your point totals will be tracked online in the WebWork system. WebWork will be scaled like the labs. To determine your WebWork points, take the total recorded online and then take the minimum of your score and 80.
Note: The "Orientation" WW will NOT count toward your online HW grade.

Written Homework: Written homework will be assigned regularly, and each assignment will consist of 3-4 problems and be worth 30 points.
The PAR (Peer Assisted Reflection) Problem: One of the homework problems will be a PAR problem that will allow for an initial solution, and a final graded solution. The initial solution will be due the class period prior to the due date of the assignment (except for PAR04, PAR08, PAR12, and PAR 13). You will trade your initial solution to the PAR problem with a fellow student in the class for feedback. You then write up a final solution to your PAR problem based on the feedback. Final solutions as well as the additional assigned written homework problems will be due the next class period.

Scoring Written Homework:
There will be 7 written homework assignments each worth 30 points, for a total of 210 points. Your written homework will be scaled as well. To determine your Written Homework points, take your total and divide by 2, and then take the minimum of your score and 100.

Exams: There will be 3 evening exams and a comprehensive final exam.

Exam 1:	Thursday, Feb 12 5pm-6:50pm	Exam 2:	Thursday, March 12 5pm-6:50pm
Exam 3:	Thursday, April 16 5pm-6:50pm	*Final Exam:*	*MONDAY, May 11 7:30am-9:30am*

Alternate Exams: Exams must be taken at the time announced on the syllabus or in class. The only exceptions are conflicts with any university approved absence (for which a special letter is required) or events beyond your control that cannot be rescheduled (e.g. hospitalization). In either case it is the student's responsibility to inform your instructor in due course (well ahead of a conflict with a university events, or as soon as possible in case of a medical emergency) of this conflict and to provide written documentation.

If you have a chemistry or physics lab conflict with the exam time, please let your instructor know ***no later*** than the Monday of the exam week. An alternate exam time on the day of the exam will be provided.

RDS: Students working with RDS should make themselves known early and have their forms ready to be filled out by the ***course coordinator***. Only one form is required for all Midterms, and one form for the Final.

Office Hours and Tutoring: Free tutoring is available for this course through the Arts & Sciences Tutoring Program. The program is located in the Russell George Great Hall in The Institute for Learning and Teaching (TILT), and runs 5 p.m. to 10 p.m., Sunday-Thursday evenings during the academic year. No appointment is necessary and all students are welcome. For more information and tutoring schedule, please visit:
`http://tilt.colostate.edu/learning/tutoring/artSciences.cfm`

Discussion Forum: We will use http://www.piazza.com for discussions. Use this forum to ask your questions. Someone will answer! By now, you should have received an email from Piazza. If not (for instance, if you enrolled late), please try to search for MATH 180 at Colorado State University on that website and enroll yourself.
Note that there is a free Piazza app for the iPad and iPhone.

Academic Integrity:
Courses in the department adhere to the Academic Integrity Policy of the Colorado State University General Catalog and the Student Conduct Code (which can be found in section 1.6 of the course catalog).

By handing in homework, lab reports and exams you certify that this is your own work. You are encouraged to discuss homework solution strategies and laboratory write-ups with fellow students but the final write-up must be your own. Misrepresenting someone else's work as your own (plagiarism; this includes submitting work from a Solutions Manual or an on-line homework web site as your own), possessing or using unauthorized reference information in any form that could be helpful while taking an exam (for example a calculator not explicitly permitted), or doing WebWorK problems with the aid of a computer algebra system are examples of cheating. 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.

Email Etiquette:
`http://www.math.colostate.edu/programs/undergraduate/policies.shtml#email`

Math 180A4 Tentative Schedule

	Monday	Wednesday	Thursday	Friday
Week 1 ***Jan 19-23***	No Class	Syllabus Section 4.3		Section 4.3
Week 2 ***Jan 26-30***	Section 4.3	Section 4.4 WW1 due		Section 4.4
Week 3 ***Feb 2-6***	Section 4.5 HW01 due	Section 4.5		Section 4.5
Week 4 ***Feb 9-13***	*Catch Up*	*Review*	Exam 1 5-6:50pm	Lab 1
Week 5 ***Feb 16-20***	Section 5.1 HW02 due	Section 5.1		Section 5.2 WW2 due
Week 6 ***Feb 23-27***	Section 5.2	Section 5.3		Section 5.3 HW03 due
Week 7 ***Mar 2-6***	Lab 2 WW3 due	Section 4.7		Section 4.7
Week 8 ***Mar 9-13***	Section 4.7 WW4 due, HW04 due	*Review* WW: Integral Mastery due	Exam 2 5-6:50pm	Section 5.4
Spring Break ***Mar 16-20***	No Class	No Class	No Class	No Class
Week 9 ***Mar 23-27***	Section 5.4	Section 5.4		Section 5.5 WW5 due
Week 10 ***Mar 30-Apr 3***	Section 5.5	Section 5.5 HW05 due		Section 5.6 WW: Limit & Deriv. Mastery due
Week 11 ***Apr 6-10***	Section 5.6	Section 6.1		Section 6.1 WW6 due
Week 12 ***Apr 13-17***	Section 6.1 HW06 due	*Review*	Exam 3 5-6:50pm	Section 6.3
Week 13 ***Apr 20-24***	Section 6.3	Section 6.3		*Review* WW7 due, HW07 due
Week 14 ***Apr 27-May 1***	*Review*	*Review* ***Final Exam Mastery***		*Review*
Week 15 ***May 4-8***	*Review*	*Review*		*Review*