

Math 160: Calculus for Scientists and Engineers I, Fall 2017

Course Coordinator: Dr. Mary E. Pilgrim (mpilgrim@rams.colostate.edu)

Formal Course Syllabus: <http://www.math.colostate.edu/syllabi/MATH160Syllabus.pdf>

Math160 Web Site: <http://www.math.colostate.edu/~calc/MATH160/index.html>

The Calculus Center Web Site: <http://www.math.colostate.edu/calculuscenter/>

Calculus Help Hours:

http://www.math.colostate.edu/~calc/MATH160/CalculusHelpHours_Fa2017.pdf

Prerequisites: Math 124 and Math 126 with a grade of B or better

Calculator: Access to a graphing calculator or app (such as desmos.com, wolframalpha.com, etc.) is recommended for homework, labs, and other course activities. Only scientific calculators such as the TI-30X IIS will be allowed on exams. Graphing or symbolic calculators WILL NOT be allowed on exams and quizzes. You must provide your own calculator; you may not use a laptop computer or smart phone. Be aware that some quizzes may prohibit the use of a calculator.

If you are unsure if your calculator is allowed or acceptable, please talk to your instructor.

Optional Textbook: Weir and Hass. Thomas' Calculus, 13th Edition, Pearson Education Inc, 2010 (www.pearsoned.com) or Thomas' Calculus, Custom Edition for CSU. Pearson Learning Solutions, 2010.

Important Dates:

Last day to add without override: Aug 27

Last day to add with override: Sept 6

Last day to drop: Sept 6

Last day to withdraw: Oct 16

Grading:

Exam 1: 14%

Exam 2: 14%

Exam 3: 14%

Final Exam: 28%

Written Homework: 12%

Ximera Homework: 8%

Labs: 5%

Quizzes & Other Class Assignments: 5%

Grade Distribution The grade distribution will be no stricter than the following:

A: 90%-100%

B: 80%-89%

C: 70%-79%

D: 60%-69%

F: Below 60%

*****Important Notes*****

- 1. If your final exam grade is less than 50%, your final grade in the course can be no higher than a D.*
- 2. You receive the grade you earn in this class. For example, if your grade is an 88%, then you will receive a grade of B. There are no exceptions, so do not email your instructor or the course coordinator asking to be "bumped up."*
- 3. You have no more than 2 weeks after a homework or exam/quiz has been passed back in class to have your score altered due to a recording error or grading mistake. Please take prompt responsibility for ensuring your grades are properly recorded in Canvas.*
- 4. No make-up exams or make-up work is allowed unless in the case of a documentable emergency or documentable university approved absence due to a university sponsored event.*

-We are unable to offer alternate exams for other situations such as work commitments or travel plans. Students who feel they are in a special situation not covered by these general rules should contact the course coordinator.

Written Homework (12%): Written homework will be assigned regularly (see tentative schedule for due dates), and each assignment will consist of 3-5 problems. There will be 14 written homework assignments. Your lowest homework assignment will be dropped. Each homework assignment will be worth 30 points: 10 points based on the completeness of the assignment and 20 points based on the correctness of a graded subset of problems.

***How to earn 3 points back on a written homework assignment:*

For each written homework assignment, you will have the option to earn up to 3 points back on the assignment. To do this, you must do the following **NO LATER THAN ONE WEEK AFTER THE GRADED HOMEWORK ASSIGNMENT WAS PASSED BACK IN CLASS:**

1. Go to one of the calculus help hours and discuss what you missed on your homework assignment. You must do this with a Math 160 instructor. You will NOT get points back for problems that you did not attempt.
2. The instructor present in calculus help hours will discuss this with you and will put your name on a list to get the points back.

Note: You cannot get more than 100% on a homework assignment.

Ximera Homework (8%): The online homework for this course is via Ximera, which you can access through the Math 160 Canvas shell.

Note: Since only a small number of problems are assigned from each section, these problems are not necessarily inclusive of all material, so be sure to study class notes, the textbook, labs and all other course materials!

Ximera Due Dates:

Exam 1 content: Wednesday, September 13, 2017 at 5pm.

Exam 2 content: Wednesday, October 11, 2017 at 5pm.

Exam 3 content: Wednesday, November 8, 2017 at 5pm.

Post Exam 3 content: Wednesday, December 6, 2017 at 5pm.

Grading Ximera HW: There are 3 types of Ximera cards - title cards, exercise cards, and general content cards.

5% of the Ximera grade will come from title cards.

40% of the Ximera grade will come from exercise cards.

55% of the Ximera grade will come from general content cards.

Ximera Labs (5%): There will be 5 technology labs this semester, which will be accessible through Canvas via the Ximera Lab module. Each lab will be due at 5pm on their respective due dates. Although these labs will remain accessible for studying past their due date, no grade changes will be made based on any work completed after the due date.

Quizzes & Other Class Assignments (5%): The content in this component of the course will be left to the discretion of your instructor.

Exams: There will be 3 evening exams and a cumulative final exam. All exams must be taken at the time stated on the syllabus or in class. Exam times are listed with the tentative schedule on the last page of the syllabus.

EXAM SCHEDULE:

Exam 1 (14%): Thursday, September 14, 5pm-6:50pm

Exam 2 (14%): Thursday, October 12, 5pm-6:50pm

Exam 3 (14%): Thursday, November 9, 5pm-6:50pm

Final Exam (28%): Monday, December 11, 11:50am-1:50pm

Alternate Exams: All exams must be taken at the time stated 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 the instructor in due course (well ahead of a conflict with a university event, or as soon as possible in case of a medical emergency) of this conflict and to provide written documentation.

No alternate exams will be allowed for class conflicts. If you have a class meeting during the time of an evening exam, you must make arrangements to miss that class in order to take the Math 160 exam.

If you have a university approved absence or documentable emergency and need to schedule an alternate exam, then you must do the following:

1. Contact your instructor (NOT the course coordinator) via email or in person at least one week prior to the university approved absence (or as soon as possible after a documentable emergency).
2. Provide your instructor with documentation (speak with your instructor about what is appropriate).
3. Your instructor will provide you with instructions for taking the exam at an alternate day/time.

RDS: Students working with RDS should make themselves known early (no less than one week prior to an exam) and provide formal documentation to their instructor.

Calculus Help Hours: A schedule for Math 160 Calculus Help Hours can be found here:
http://www.math.colostate.edu/~calc/MATH160/CalculusHelpHours_Fa2017.pdf

In addition, we are required to provide you with access to an instructor in the lab at least one hour per week outside of scheduled class times. The schedule for these lab hours can also be found on the Calculus Help Hours schedule.

TILT 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/>

Discussion Forum: We will use the Canvas discussion board for discussions. Use this forum to ask your questions. Someone will answer! You can find the discussion board on the course Canvas page. Log onto <http://info.canvas.colostate.edu/login.aspx>

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 Ximera problems with the aid of a computer algebra system are examples of cheating.

Using a calculator capable of symbolic manipulation or graphing on an exam or quiz is an example 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>

Tentative Schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1 Aug 21-25	Syllabus 2.1	Ximera Lab 1 <i>Lab 1 opens in Ximera</i>	2.1, 2.3		2.3
Week 2 Aug 28-Sep 1	2.2	2.2	2.4		2.4 Ximera Lab 1 Due HW 01 Due
Week 3 Sep 4-8	<i>University Holiday No Class</i>	2.5 4.1 (Extreme values, EVT)	2.5 4.1 (Extreme values, EVT)		2.6 HW 02 Due
Week 4 Sep 11-15	2.6	3.1 HW 03 Due	Review Ximera HW Due	Exam 1 5-6:50pm	<i>No Class</i>
Week 5 Sep 18-22	3.2	3.2, 3.3	3.3		3.4 4.3 (increasing, decreasing) HW 04 Due
Week 6 Sep 25-29	3.4 4.3 (increasing, decreasing)	3.5	3.5		3.6 <i>Lab 2 opens in Ximera</i> HW 05 Due
Week 7 Oct 2-6	3.6	3.7	3.7, 4.1		4.1, 4.2 HW 06 Due
Week 8 Oct 9-13	4.2	Catch Up HW 07 Due	Review Ximera Lab 2 Due Ximera HW Due	Exam 2 5-6:50pm	<i>No Class</i>
Week 9 Oct 16-20	4.3 <i>Last day to withdraw</i>	4.3, 4.4	4.4		4.5 HW 08 Due <i>Lab 3 opens in Ximera</i>
Week 10 Oct 23-27	4.5	4.5	5.1		5.1, 5.2 Ximera Lab 3 Due HW 09 Due
Week 11 Oct 30-Nov 3	5.2	5.3 (introduce Lab 4)	5.3		4.7 HW 10 Due
Week 12 Nov 6-10	4.7	Catch Up HW 11 Due	Review Lab 4 Due in Class Ximera HW Due	Exam 3 5-6:50pm	<i>No Class</i>
Week 13 Nov 13-17	5.4	5.4	5.5 <i>Lab 5 opens in Ximera</i>		5.5 HW 12 Due
Nov 20-24	<i>Fall Break</i>	<i>Fall Break</i>	<i>Fall Break</i>	<i>Fall Break</i>	<i>Fall Break</i>
Week 14 Nov 27-Dec 1	5.6	5.6	5.6, 6.1		6.1 Ximera Lab 5 Due HW 13 Due
Week 15 Dec 4-8	6.1	Review HW 14 Due	Review Ximera HW Due		Review

Final Exam (28%): Monday, December 11, 11:50am-1:50pm

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