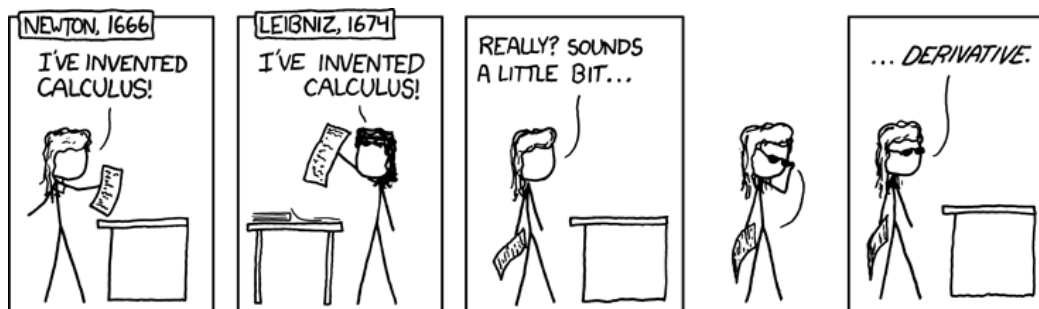


Math 31 Calculus II, Claremont McKenna College, Fall 2013



(Source: http://simonsoftware.se/xkcdsw/comics/newton_and_leibniz.png)

Time and Place:

Section 3: MWF 10:00-10:50am, Robert Hall North 104

Section 4: MWF 11:00-11:50am, Robert Hall North 104

Instructor: Guangliang (Gabriel) Chen

Office: 211 Adams Hall

Phone: (909) 607-8526

Email: gchen@cmc.edu

Webpage: <http://www.cmc.edu/pages/faculty/GChen/>

Office Hours: 1-2 pm M, 2:30-3:30 pm W, 3-5 pm F, and by appointment.

Additional office hours will be held before each exam.

Sakai: This is the official course site. It is a good source for all class-related information; in particular, it will be used to post homework assignments, record grades, and send out announcements. Please check it regularly.

Textbook: *Calculus: Early Transcendentals*, 7th edition (2010), author: James Stewart, publisher: Cengage Learning.

Course Description

This 1-credit course is a continuation of MATH 30 (Calculus I). Topics to be covered include *techniques and applications of integration, polar coordinates, improper integrals, introduction to differential equations, infinite series, and power series representation of a function.*

Prerequisite: MATH 30 or placement (or you understand the above cartoon).

Materials to Be Covered

The following chapters & sections of the textbook will be covered in this course (we may skip a couple sections if there is not enough time):

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- **Chapter 6:** Sections 6.1 - 6.5
 - **Chapter 7:** Sections 7.1 - 7.5, 7.7 - 7.8
 - **Chapter 8:** Sections 8.1 - 8.2, 8.5
 - **Chapter 9:** Sections 9.1, 9.3 - 9.5
 - **Chapter 10:** Sections 10.1 - 10.4
 - **Chapter 11:** Sections 11.1 - 11.10
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Class Rules

- The class starts on time, so please do not be late.
 - Please make sure to turn off or mute your cell phone during class.
 - Please do not perform activities that are irrelevant to the course or distracting to other people.
 - Academic dishonesty at any level is not tolerated and will be reported to the College (per its policies) which may result in failure of the course and possible academic suspension.
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Grading Policy

Class attendance (including participation of in-class discussions) and textbook reading are required parts of the course.

Attendance will be checked in five unannounced classes during the semester. If you miss no more than two classes, you will be eligible for bonus points (see the section Bonus Points Opportunities below).

Homework assignments, with their due dates (normally on Fridays, but there will be exceptions), will be regularly announced in class and also posted on Sakai. You will find reading textbook examples especially helpful for solving some assigned homework problems. Late homework will not be accepted, however, your lowest two scores will be dropped.

There will be two in-class midterm exams and the comprehensive final exam. Here is the exam schedule.

- Midterm 1: Wednesday, October 2, in class
- Midterm 2: Monday, November 11, in class
- Final Exam: (Time and location to be announced)

Note that calculators and other electronic devices are not permitted in all exams.

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Show all your work to receive full credit in both homework and tests. Correct answers without supporting steps may receive zero credit.

Make-ups for exams will only be given with documented CMC-approved excuses. The final exam cannot be rescheduled by the instructor for any reason. See Academic Policies and Procedures at <http://catalog.claremontmckenna.edu/>.

The scales used will be as follows:

- Homework: 50
- Midterm 1: 100
- Midterm 2: 100
- Final: 150

Thus, the maximum possible total score is $50+100\times 2+150=400$.

At the end of the semester I will introduce a curve based on the overall performance of the class to assign course grades accordingly.

Study Groups

You are strongly encouraged to form study groups of 2 or 3 people each, so that you may learn from each other and collaborate on homework (but you must write independent solutions).

You will receive bonus points by simply joining a group and additional bonus points if your group as a whole makes “enough” progress between two consecutive exams (i.e., midterm 1 - midterm 2, or midterm 2 – final; see below for specific rules). Please form study groups freely, and be sure to email me your group affiliations by Monday, September 30 (after this deadline you will not be allowed to join a group or change your group affiliations).

Bonus Points Opportunities

Bonus points are available if you meet each of the following conditions:

- You earn 10 points if you pass the attendance check 4 (or more) times out of the five, 5 points if you pass 3 times out of the five, and none otherwise.
 - You receive 5 points if you join a study group, another 5 points if your group improves its average class rank by more than one from midterm 1 to midterm 2, and another 5 points from midterm 2 to the final exam (under the same criterion).
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Tutoring Services

The department provides free tutoring help to people who enroll in this course. The location is Math & CS Commons Room, Adams Hall 209. Regular tutoring hours are usually Sunday through Thursday, 8:00 - 10:00 pm, starting the second week of every semester and through the last day of classes. For more details such as the schedule, see <http://www.claremontmckenna.edu/math/tutoring.asp>

Special Accommodations

If you anticipate needing any special accommodation during the semester (for example you have a disability registered with the College, or you are an athletic student), please let me know as soon as possible.

Instructional Technology

I plan to use MATLAB to assist my teaching (when suitable) by displaying results, illustrating ideas, and demonstrating concepts. You are not required to know MATLAB programming; however, if you are interested in learning it, you may obtain from me the codes used in class and run them on your own. The MATLAB software is available in the *Claremont Center for Mathematical Sciences (CCMS) Software Lab*. For more information on the lab, please refer to <http://ccms.claremont.edu/CCMS-Software-Lab>.

Instructor Feedback

I strive to teach in the best way to facilitate your learning. To do this, it is very helpful for me to receive immediate feedback from you. As often as you like, please visit the Feedback link in Sakai and submit anonymous feedback. This feedback is sent directly to me via an anonymous form. Please submit constructive criticism about things you would like me to change, as well as positive feedback about things in the class you are happy with.

The instructor reserves the final right to interpret and make changes to the class policies that are stated in this course syllabus.