Course: Quantitative Thinking 1030-7, 6:00-7:30pm, LCB 121
Instructor: Hankun Ko
Office Hours, Office: T, H, 4:00pm - 5:00pm or by appointment (when you make an appointment by e-mail please let me know your available time first) JWB 206
E-mail: kohk@math.utah.edu
Class web-page http://www.math.utah.edu/~kohk/(I’ll post solutions of quizzes and tests and some announcement.)

Prerequisites: C or better in Math 1010 (Intermediate Algebra), or at least 23 on your ACT(math); How to manipulate variable expressions and to work with simple linear equations, graphs, fractions and exponents are required. And you should know the basic properties of simple geometric shapes.
(Remark: Math 1030 does not satisfy 1050 or 1090 prerequisite.)

Course: Math 1030 is an application-based course centered around the use of mathematics to model changes in the real world, and the effective communication of these mathematical ideas. We will cover chapters 1-4, 8, 9, and 10 (if time permitting).

Homework: Homework problem list is attached to the syllabus. Homework is very important because that is the only way you can survive this class. You should show enough details of the solutions of the problems and they should be neatly written down so that anyone can read and understand. But homework will not be graded for correctness. So it is your responsibility to understand the problems and their solutions. The homework set must be stapled with a cover page on which the assigned section, your full name, date of turning in must be put. And it must be ready to turn in before you come to the class. Don’t look for a stapler in the classroom. Each homework is worth 10 points. You will get 10 points if you do all the problems as directed. If you fail to turn in more than 3 times your final best possible grade will be B+ regardless of the other works (project, quizzes and tests). And only 3 one week late homeworks will be accepted.
Quizzes: Quizzes will be given every Thursday (7-9 times). Lowest 3 quiz scores will be dropped. If you fail to take a quiz on the designated time and date it will be scored 0. For this reason NO make up or prior quiz is given in any case even in any proper reason.

Project: You will have 1 project to turn in. The project will be due the 15th week of the classes. Exact due date is 4/17(Thursday). You will be provided the list of topics approximately 10 weeks before the project is due, and you will work in groups of 2 to 3 people on a topic that you select from the list. We will discuss the format and expectations for the project before you begin. No late project will be accepted.

Exams: 2 midterms(Thursday 2/14, Tuesday 4/1) at the usual class room and the hours. While taking a test(or a quiz) you are not allow to ask any question(understanding a statement of the problem is a part of the test). After the test do not try to discuss what you did or verify the solution, which oftenly get you mad and emotional especially when you got a wrong answer.

Final Exam is comprehensive and departmental. (Wednesday, 4/30, 3:30pm - 5:30pm)
The room will be notified later.

NO MAKE UP TEST WILL BE ALLOWED EXCEPT SOME EXTRAORDINARY CASES(in which cases it is completely your responsiblity to communicate with me as soon as possible.).

Grading: Your grade will be computed as follows:
- Homeworks 10%
- quizzes 10%
- project 20%
- midterms 30%
- final 30%

**total** 100%

Each accumualated score will be converted to the corresponding percentage and added up. No curve will be applied. Grade scale is: A(93-100), A-(92-90), B+(87-89), B(83-86), B-(80-82), C+(77-79), C(73-76), C-(70-72), D+(67-69), D(63-66), D-(60-62), E(0-59).

Calculator: You will need a calculator. A scientific calculator is enough.
Class attendance: Class attendance is expected. You will be solely responsible for missed handouts or announcements made during lecture.

Guideline for study
1. Read the textbook before you come to the class.
2. Don’t miss the class.
3. Read lecture notes and the book while you are doing homeworks and get understanding of the concepts and skills. Summarize what you have learned with your own language and put a mark where you need a help and ask it later. Solve the problem by your HAND not by your head only.
4. Ask a question and complete it. Use the office hour. Work with your friends.
5. Do not assume that you would understand everything without practicing.
6. Spend at least 8 hours a week, especially on homeworks.

Classroom Etiquette:
To maximize its benefits for all participants, and to minimize disruption and distraction, please observe these points:

1. Turn off your cell phone during class.
2. Be in your seat when class starts.
3. Don’t engage in any private conversations during class.
4. Don’t leave class before it ends.
5. Wait until class is formally ended before packing up your stuff.

Tutoring: The Rushing Math Center offers free drop-in tutoring and study areas for undergraduates. The location is between LCB and JW B. The hours are: 8 am - 8 pm Monday-Thursday and 8 am - 6 pm on Friday. The math center has four study rooms that may be reserved by groups of students from math classes. Reservations are made through the desk in the math center. Along the wall adjoining the math library are study desks.

Special Accomodations: The ADA requires that reasonable accomodations be provided for students with physical, sensory, cognitive, systemic, learning, and psychiatric disabilities. Students eligible for special accomodations are strongly encouraged to discuss their needs with me at the beginning of the semester. I will be happy to make such arrangements.
HWs; Choose 15 problems and do them in each section if more than 15 problems are assigned. Otherwise do every problem as assigned. You must turn it in on the next Tuesday after the section is finished. For example, if the 1C is finished on Tuesday 1/7 or Thursday 1/10 then you should turn it in by Tuesday 1/15. Don’t miss the class! I will not reply your email when and which to turn in individually.

1C: 47-81 odd numbers
1D: 33-57 odd numbers

2A: 29-77, 83, 85 odd numbers
2B: 29-83 odd numbers

3A: 55-97 odd numbers
3B: 25-75 odd numbers

4A: 23-55 odd numbers
4B: 41, 43, 45, 47, 51, 55, 57, 61, 63, 65, 67, 71-87 odd numbers
4C: 45-65 odd numbers
4D: 23-49 odd numbers

8A: 1, 3, 5, 7, 19-37 odd numbers
8B: 35-65 odd numbers
8C: 1, 3, 5, 7, 9

9A: 1, 2, 3, 4, 5, 6, 7, 8, 19-35 odd numbers
9B: 21-43 odd numbers
9C: 37-51 odd numbers

10A: 73-83 odd numbers