

MATHEMATICS 1100: Quantitative Analysis

Spring Term 2011

General Information

- **Class meets:** Tuesday/Thursday 18:00–19:30, JTB 130.
- **Instructor:** Veronika Ertl.
ertl@math.utah.edu
- **Office Hours:** Tuesday/Thursday 17:00–18:00, LCB Loft.
- **Class web page:** <http://www.math.utah.edu/~ertl/Teaching/math1100/math1100.htm>

Course Content and Structure

- **Textbook:** Mathematical Applications for the Management, Life, and Social Sciences, Volume 2, by Harshbarger & Reynolds (custom edition for the U of U).
- **Prerequisites:** The prerequisite for this class is passing Math 1090 or Math 1050 (with a C or better). The students should have a reasonable understanding of algebra before they enter this class. Not for students who have completed more than one quarter of calculus.
- **Course:** Differentiation, maximization and minimization of functions, marginal analysis and the optimization of constrained functions, integration and applications.
- **Homework:** Homeworkproblems are assigned weekly on Thursdays in class and on the webpage. Homework will be collected the following Tuesday and graded. The homework score will not enter to the final grade, but in order to be admitted to the final exam students should have 50 % of the score in the homework.

If you don't do the homework for practice, it is highly unlikely that you will pass the daily quizzes and exams. Practice makes perfect...or at least it makes you head in the direction of perfect. :) Observing someone else do the problems is VERY different from working the problems yourself!!

The homework is to be turned in according to the following instructions:

1. The homework set MUST be stapled together with the corresponding cover sheet as the first page. (I will provide the cover sheets in class.) A homework set turned in without being stapled together or without a cover sheet will not be counted!! It will be returned to you without being graded. Please do not come to class hoping that I or someone else will have a stapler. Be prepared when you arrive.
2. To get full credit for the homework, you MUST show all your work! If it happens three times that you don't show all your work, you will no longer be allowed to turn in homework for any credit!!!
3. I will not accept late homework. Do not ask for special favors with regard to the homework policy, unless the circumstances are extraordinarily severe, because my response will not be in your favor. Also, it is not necessary nor recommended that you tell me why your homework is late. This policy is meant to be flexible enough to cover all reasons and so I don't get calls and emails every week with your personal drama stories.
4. I only collect homework during the first class of the week!! This is the only time and location that I will accept homework. If you put homework on my desk I will throw it away without looking at it.

- **Quizzes:** There will be weekly quizzes (probably each Thursday) covering the material that we have done. The problems will be very similar to the text or examples that we have done in class or the assigned homework problems. No make-up quizzes will be given, but the lowest two quiz grades will be dropped at the end of the semester.
- **Exams:** There will be two midterm exams (60 minutes each).
- **Final Exam:** The final exam will be two hours.
- **Calculators:** **No calculators allowed** in this class!
- **Withdrawals:** Students may withdraw from the class without consulting anyone until 4th March 2011 (Friday). If a student withdraws before 19th January 2011 (Wednesday) there will not be any tuition penalty.

Grading

- **Grading policy:** Your grade will be based on:

Quizzes	20 %
Exams (2)	40 % (20 % each)
Final exam	40 %
- **Grading Scale:** Although I'm not philosophically opposed to curving grades, I find it's rarely necessary. The grade scale will be the usual:

A	93-100 %
A-	90-92 %
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 %

If I do need to curve the grades, I will simply shift everything down by a few points (whatever is necessary).

Exams

- **Location:** All exams take place in the usual clas room.
- **Dates:**
 - First Midterm: Thursday 10th February 2011, 18:00-19:00.
 - Second Midterm: Thursday 17th March 2011, 18:00-19:00.
 - Final : Tuesday 3rd May 2011, 18:00-20:00.
- **Exam Policy:**
 - All exams are closed book.

- Absence from an exam will be excused if and only if the student can provide verifiable and convincing evidence that he/she has a significant illness or serious family crisis that will prevent him/her from attending. Except under extremely unusual circumstances, the student must inform the instructor in advance of the missed test. The student is expected to promptly make arrangements with the instructor to make up the test.

Other Policies

Due to experience, I have decided to make some additional policies regarding my classroom administration and grading.

1. There will be no retakes of exams ever. Your score is what you get.
2. You may take an alternate exam if you talk to me about it first and explain the extenuating circumstances that make it necessary. Needing to work, babysitting your siblings, oversleeping, or needing more time to study do not pass as acceptable reasons to inconvenience me. Getting in a car crash or your mother's death, on the other hand, is sufficient reason to request to take an alternate exam. But, it is 100 % your responsibility to communicate with me as soon as is possible, before the exam occurs (or as soon as possible). Talking to me after the problem will be sufficient reason for me to allow you to get a zero on that test. I reserve the right to make alternate exams more difficult than the scheduled exam.
3. I will demand respectful behavior in my classroom. Examples of disrespect include reading a newspaper or magazine in class, social chatting with your friend in class, text-messaging your buddies during class or cuddling with your girl/boyfriend in class. If you choose to be disrespectful during my class, I can guarantee I will take action to terminate your disruptive behavior.
4. There will be no cursing nor negative ranting (for example, "math sucks") on any written work turned in. The penalty for such things on your written work will be a zero score on that assignment or test!
5. You need to have a valid email address registered with Campus Information System. I will regularly send emails to the class and will hold you accountable for receiving that information. If you have troubles receiving my weekly emails, you can (1) check to make sure your email address at Campus Information System is correct, (2) make sure my emails are not going directly to your junk mail folder, or (3) contact the webmaster at Campus Information System.
6. If you have crisis-level extenuating circumstances which require flexibility, it is completely your responsibility to communicate with me as soon as possible. The longer you wait to communicate with me, the less I can and am willing to do to help.
7. If you have questions about any exam grade, or you want to appeal the grading of the exam, you must bring it to me within one week of the exam. After that, you will have to live with whatever grade you got.
8. Please make sure you do your best throughout the semester and come talk to me if you need further study strategies. I will NOT offer any extra credit at the end of the semester or any other way for you to improve your grade at that time. If you ask me toward the end of the semester if I'll make special arrangements for you to improve your grade by some means, I will automatically deduct one percentage point from your overall grade, just for asking the question!!
The same applies for asking about curving!

Your Responsibilities

Check your university email regularly as important emails concerning exams or class might be sent there. Also check the class webpage regularly.

All turned in work (homework, quizzes, exams) is expected to be well organized, neatly written, stapled if there is more than one sheet, with the name on each sheet. Failing in doing so will result in a loss of points.

You are responsible for knowing the policies of the class. Please take it seriously because the flexibility listed here is literally all there is.

Guidelines for Success

- Come to class and take notes. This is very important for several reasons, the most obvious being that some part of the text might be left out and will therefore be non-examinable, so you want to have a solid basis for studying what will be in the exams.
- Discuss the course material with your fellow students, form study groups.
- Work regularly throughout term. Do not leave the homework for the night/hours before the deadline.
- Ask questions. Class is a good place for this.
- Be patient. Mathematics takes a while to sink in. Do many examples and eventually you will be successful.
- **Tutoring:** The Rushing Math Centre offers free drop-in tutoring, a computer lab, and study areas for undergraduates. The Rushing Student Centre is adjacent to the LCB and JWB. The hours for the Spring semester are: 8:00–20:00 Monday through Thursday and 8:00–18:00 on Friday. The tutoring center will open the second week of classes.

ADA Statement

The Americans with Disability Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic learning and psychiatric disabilities. The student needs to have such a disability approved by the Disability Service Office (162 UNION, 581-5020) in order to have the accommodations provided. The instructor needs to be informed about such a disability and approved accommodations at the beginning of the semester.