

Course Syllabus
MATH 1100, Section 001, Fall 2017
Business Calculus

Instructor: Anna Nelson
Office: LCB 305
E-mail: anelson@math.utah.edu

Class Hours: MWF 10:45am - 11:35am, SW 133 (Social Work)

Office Hours: To be announced

Text: *Mathematical Applications for the Management, Life and Social Sciences*. 8th Edition, by Harshbarger & Reynolds. Detailed information on the textbook can be found at <http://www.math.utah.edu/schedule/bookInfo/index.html>.

Note: This is not the most recent edition of this textbook! There should be less expensive options online (\$20-\$40).

- ISBN 13: 978-0-618-65421-5
- ISBN 10: 0-618-65421-6

Calculators: Calculators will be useful for homework. However, if I allow calculators on exams or quizzes, I will only allow scientific calculators (no graphing or programmable calculators will be allowed ever). Most of the time, you will not have use of a calculator on exams and quizzes. This will be discussed more in class with each quiz and test.

Prerequisites: At least a “C” grade in Math 1090 (Business Algebra) OR Math 1050 (College Algebra) OR in Math 1080 (Precalculus) OR Math 1210 (Calculus 1) OR an Accuplacer score of 80 on the College Level Math (CLM) test OR at least an ACT Math score of 28 OR at least SAT Math score of 630.

Course: Math 1100 is a 3-credit semester course that will cover differentiation, maximization and minimization of functions, marginal analysis and the optimization of constrained functions, integration and applications. Not for students who have completed more than one semester of calculus. Upon successful completion of this course, a student should be able to:

- Have a basic conceptual understanding of limits.
- Know how to differentiate and integrate polynomial, rational, logarithmic, and exponential functions.
- Use derivatives to gather information about the shape of the curve and use that information to graph the curve $y = f(x)$, for polynomial, logarithmic, exponential and simple rational functions.
- Understand how to use differentiation to optimize functions for business applications, such as maximizing profit examples.
- Use integration to find area under curves and for business examples such as average value.
- Take partial derivatives of basic functions of two variables.

Homework: Weekly homework will be due on Fridays of each week. Homework will be assigned in sections from the previous few days.

- Each section of homework will be worth ten points. If four sections of homework are assigned, the homework will be worth 40 points.
- Homework is graded on completion and correctness. Half of the homework grade is based on completion of ALL problems. The other half of the grade is based on correctness, neatness, and with all work shown. The grader will grade a few problems on each homework set for correctness, chosen at random.
- Homework must be turned in **stapled**. Homework that is not stapled will not be graded, so be prepared when you arrive.
- I accept to **10 homework sections** up to two weeks late throughout the semester for full credit. I will not accept homework that is more than two weeks late. This policy is for illnesses, emergencies, etc.

- Homework will only be collected on Fridays. If you need to turn in late homework, it will **only** be accepted on Fridays (within two weeks of the original due date). This is the only time and location I will accept homework.

Quiz: There will be a total of 10 weekly quizzes, which means there will be a quiz every week of classes except test weeks. The weekly quiz will cover the material presented that week in class. You must be in attendance to take the quiz, however the three lowest quiz scores will be dropped. There are no “make-up” quizzes. Students who miss a quiz will receive a “0” on the missed quiz.

Exams: You will have three midterm exams (50 minutes each). There are no “make-up” exams. Students who miss an exam will receive a “0” on the missed exam. Absence from an exam will be excused only if you can provide verifiable and convincing evidence that you have a significant illness or serious family crisis that will prevent you from attending. Except under extremely unusual circumstances, you must inform me in advance of the missed test.

Final Exam: The final exam is on Thursday, December 14th, 10:30 am ? 12:30 pm in our regular classroom, SW 133

Canvas Course Page: The course has a Canvas page where all essential information will be kept including the link to important materials, grades, and reviews for exams.

Grading Policy: Your grade will be based on:

Homework	14%
Quizzes	7%
Midterm 1	18%
Midterm 2	18%
Midterm 3	18%
Final Exam	25%

The three lowest quiz scores will be dropped. Your score on the final exam will replace your lowest midterm score or you will receive a 2% bonus to your final exam grade, whichever results in the highest grade. You may NOT drop the final.

Grades (Evaluation and criteria): Final letter grades will be determined by overall percentage as follows:

A	93% – 100%	B-	80% – 82.9%	D+	68% – 69.9%
A-	90% – 92.9%	C+	78% – 79.9%	D	63% – 67.9%
B+	88% – 89.9%	C	73% – 77.9%	D-	60% – 62.9%
B	83% – 87.9%	C-	70% – 72.9%	E	below 60%

Some important dates for this class:

August 21	First day of classes
September 1	Last day to drop (delete) classes
September 4	Labor Day (no class)
September 15	First midterm exam (in class)
October 8–15	Fall break (no class)
October 20	Second midterm, last day to withdraw from classes
November 17	Third midterm
November 23–24	Thanksgiving break (no class)
December 6	Last day of this class
December 14	Final examination

ADA Statement: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability and Access, 200 S. Central Campus Dr., Rm. 162. CDA will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability and Access.

Tutoring: The Rushing Math Center offers free drop-in tutoring, a computer lab, and study 2 areas for undergraduates. The Rushing Student Center is adjacent to the LCB and JWB. The hours for the Fall semester are: 8 am – 8 pm Monday to Thursday and 8 am – 6 pm on Friday. The tutoring center will open the second week of classes.

Student responsibilities: All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. <http://regulations.utah.edu/academics/6-400.php>

Classroom Social Equity: I strive to be kind, ethical, fair, inclusive and respectful in my classroom and expect students to behave likewise. In this regard, I have these requests of you, as my students:

- Please inform me of whichever pronouns you prefer me to use for you. I will put great effort into honoring your request and ask that you correct me if I happen to make a mistake.
- Please do tell me, discreetly, if you have any sort of anxiety disorder, TBI, PTSD, C-PTSD, or any other challenge that would cause psychological harm to you by me calling on you in class. I want students to feel a little uncomfortable and stretched during class, while working on problems as a large group, but I don't want to cause any human being harm. So, please just tell me if that is the case for you and I will confidentially accommodate your request.
- If your preferred name is different than your legal first name (the preferred name you chose does indeed show up in CIS on my roll sheet, but not yet in Canvas), please log into Canvas and go to Account (on far left)–>Settings and change your Display Name to be the name you prefer to be addressed by. This will help me to address you correctly.

Class policies:

- I reserve the right to modify the class structure and syllabus at any time but I will notify you if and when any changes are made
- Please silence your technology at the start of class. If you are repeatedly disrupting the learning environment, you will be asked to leave.
- If an emergency arises that prevents your from making it to an exam or turning in a homework it is your responsibility to communicate that information to me as soon as possible. I will do my best to accommodate any situation that comes up.
- If you are struggling with a concept please come talk to me or visit the tutoring center as soon as possible. I am more than happy to meet with you outside of my office hours if my schedule permits it.
- I encourage you to work with others on the homework but anything that you turn in must be your own work.
- Regrade requests can only be made the class after the homework/quiz/exam was returned and in writing with an explanation why more credit is due.