

Math 1100 - 03: Business Calculus

Tuesday and Thursday 6:00 - 7:30 LCB 215
Marcus Robinson (robinson@math.utah.edu)

Office Hours: Office hours will be held in JWB 219 on Tuesday/Thursday from 5:00 - 6:00. There will be an additional office hour in the business building time TBA. I am happy to meet with you outside of these times schedule permitting.

Textbook: Mathematical Applications for the Management, Life and Social Sciences, *8th Edition*, by Harshbarger & Reynolds ISBN 13: 978-0-618-65421-5. Please note this is an older edition. More information can be found at <http://www.math.utah.edu/schedule/bookInfo/index.html>.

Course Prerequisites: At least a C grade in Math1090 (Business Algebra) OR Math1050 (College Algebra) OR in Math1080 (Precalculus) OR Math1210 (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 Information and Description: Math 1100 Business Calculus is a 3-credit semester course. 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.

Expected Learning Outcomes: By the end of the course, a student should:

- 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: Homework work will be assigned weekly and due on Tuesday. Late homework will not be accepted. Homework will be graded based on both completion and correctness but I care much more about how you arrived at an answer rather than the answer itself.

Quizzes: Quizzes will be given weekly on Thursday. The problems on the quizzes will be similar to the assigned homework questions. *No make-up quizzes will be given*, but your two lowest scores will be dropped at the end of the semester.

Midterms: There will be two midterm exams given in class. 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. You are expected to promptly make arrangements with me to make up the test.

Final Exam: There will be a *comprehensive* final exam.

Grading: Your grade will be based on

Homework:	20%	Every Tuesday
Quizzes:	10%	Every Thursday
Midterm 1:	20%	Thursday September 28th
Midterm 2:	20%	Thursday November 9th
Final Exam	30%	Tuesday December 12th, 6:00 - 8:00 pm LCB 215

Your final letter grade will be determined by your overall percentage as follows:

	A	93% – 100%	A-	90% – 92.9%	
B+	87% – 89.9%	B	83% – 86.9%	B-	80% – 82.9%
C+	77% – 79.9%	C	73% – 76.9%	C-	70% – 72.9%
D+	67% – 69.9%	D	63% – 66.9%	D-	60% – 62.9%
	E	below 60%			

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 & Access, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability & Access.

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>

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.
- 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 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.