

Mathematics 1100
Spring 2018

Instructor: Sri Iyengar

Class Time and Place: 10:45 AM — 11:35 AM, MWF, in JFB B-1

Office Hours: 12:00 - 1:00 PM Wednesday and Fridays, JWB 202

Office Location: JWB 202

Email address: Send email through Canvas

Text: *Mathematical Applications for the Management, Life and Social Sciences*, 8th edition, Harshbarger & Reynolds
ISBN 13: 978-0-618-65421-5
ISBN 10: 0-618-65421-6

Course Information: This is a 3-credit 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 Description: 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: Upon successful completion of this course, a student should be able to:

1. Have a basic conceptual understanding of limits.
2. Know how to differentiate and integrate polynomial, rational, logarithmic, and exponential functions.
3. 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.
4. Understand how to use differentiation to optimize functions for business applications, such as maximizing profit examples.
5. Use integration to find area under curves and for business

examples such as average value.

6. Take partial derivatives of basic functions of two variables.

- Tutoring Lab: T. Benny Rushing Mathematics Student Center (between JWB and LCB), Room 155.
M - Th 8 am — 8 pm
F 8 am — 6 pm
Closed Saturdays, Sundays and holidays
They also offer group tutoring sessions. If you're interested, inquire at the Tutoring Lab.
<http://www.math.utah.edu/ugrad/tutoring.html>
- Private Tutoring: University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB233.
- Grading: The grades will be calculated as follows:
Quizzes 10%
Midterm 15%
Midterm 25%
Midterm 25%
Final Exam 25%
- Note: There will be 3 midterms. Your lowest midterm score will count for 15% of your grade and your top two midterm scores will each count for 25% of your final grade.
- Homework: Homework will be assigned but not collected or graded. Please do the homework; that is the best way to ensure you understand the material.
- Weekly Quizzes: There will be about 15 weekly quizzes, one each Wednesday, typically at the end of class. The quiz will cover material presented that week in class. **Only the top ten quiz scores will be counted. There will be no make up quizzes.**
- Midterms: There will be three one-hour midterm exams throughout the semester, and the dates will be fixed, according to the course outline/schedule that is on our class web page. They will be during normal class time, in our usual classroom.
- Final Exam: Friday, 27 April 2018, 10:30 AM — 12:30 PM
- Online Grades: Grades will be posted on Canvas. Please check these regularly, and let me know if I made any mistakes.

Calculators: Calculators will not be allowed, and will not be needed.

Grading Scale: The tentative grading scale is as follows:

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).

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 (CDA), 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDA.

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>