



Kuwait University
College of Business Administration
Information Systems & Operation Management
Department



Course Syllabus – Spring 2023
MATH 110 – Business Mathematics
Dr. Abdullah Alhouli

Lecture Time and Location:

Section (01A) Sunday/Tuesday/Thursday 2:00 PM – 2:50 PM Room C2 1005

Contact Information:

Location: ISOM Department

Email: Abdullah.Alhauili@ku.edu.kw

Office: 2nd floor, B – 1023

Office Hours: Sunday/Tuesday/Thursday – From 3:00 to 3:45 PM, (or by appointment)

Teaching Assistant:

Name:

Location:

Email:

Tutorial:

Course Description:

This course teaches the mathematical skills required for problem solving and decision making in the business world through the use of mathematical models and specialized techniques. Topics include: functions as mathematical models, equation solving techniques, differential and integral calculus, partial derivatives and their applications in economic functions, and simple matrix algebra.

Course Learning Objectives:

At the end of this course, students should be able to:

In terms of knowledge:

- Demonstrate their knowledge of the basics of solving problems in a wide range of business disciplines including Economics, Finance, Information Systems and Operations Management
- Understand the mathematical foundation for Business courses

In terms of skills:

- Analyze given data and optimize the solution
- Practice an academic attitude and a critical approach to a variety of situations

Required Textbook:

Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences: 13th Edition.

By Ernest Haeussler, Richard Paul, and Richard Wood

Grading:

The scores in this course will be the weighted average of the following items:

Description	Weight
Participation / Attendance	10%
Quizzes (5 out of 6)	10%
Midterm 1	20%
Midterm 2	20%
Final Exam	40%
Total	100%

Grade Distribution:

Grade	Range	Points	Grade	Range	Points
A	≥ 95	4.00	C	≥ 73 and < 77	2.00
A-	≥ 90 and < 95	3.67	C-	≥ 70 and < 73	1.70
B+	≥ 87 and < 90	3.33	D+	≥ 65 and < 70	1.30
B	≥ 83 and < 87	3.00	D	≥ 60 and < 65	1.00
B-	≥ 80 and < 83	2.67	F	< 60	0.00
C+	≥ 77 and < 80	2.33			

Quizzes

Quizzes will be given after finishing every chapter in the course. Practice problems will be assigned to help you prepare for the quizzes. Quiz questions are a good reflection of what the midterm and final exam questions will look like. I will drop the lowest quiz score you get from your total quizzes grade.

Exams

There are two midterm exams and a unified comprehensive final exam in this course. If you arrive late for an examination, you will be given the remaining amount of time to complete your examination. However, after the first student hands in her/his examination, late students cannot start the examination; these late students will receive a grade of zero for their examination.

After a grade is posted (quizzes, midterm, final exam), you will have two days to review it with your instructor or teaching assistant (TA). After that, the grade is final and released.

Policies: You are responsible for knowing these policies

- Attendance in this class is required. Every student in this course must abide by the Kuwait University Policy on Attendance (published in the Student Guide, Chapter 3, Section 13). A copy of the student guide can be accessed online on: http://www.kuniv.edu/cs/groups/ku/documents/ku_content/kuw055940.pdf.
- For each class meeting, please arrive sufficiently ahead of the official start time in order to collect any handouts or prior quizzes that have been graded and get yourself ready with your notes and papers. At the beginning of each lecture, I will take attendance. There will be a deduction of 0.5 points from your participation grade per each absence.
- University regulations governing absenteeism are applied to all students. This involves a first warning after 3 hours, a second warning after additional 3 hours absence and a failure notice for any absence beyond the six hours. **Each student is allowed two absences** (no questions asked), after that, each absence will be counted.
- Each student must turn silent his/her mobile at the beginning of class.

Lectures Template

#	Week Day	Date	Lecture Title	Chapter	Quiz
1	Sunday	5/2/2023	Orientation		
2	Tuesday	7/2/2023	11.2 Rules of Differentiation	Chapter 11	
3	Thursday	9/2/2023	11.3 The Derivative as a Rate of Change	Chapter 11	
4	Sunday	12/2/2023	11.4 Product and Quotient Rule	Chapter 11	
5	Tuesday	14/2/2023	11.5 The Chain Rule and the Power Rule	Chapter 11	
6	Thursday	16/2/2023	12.1 Derivative of Logarithmic Functions	Chapter 12	
7	Sunday	19/2/2023	No Class		
8	Tuesday	21/2/2023	12.2 Derivative of Exponential Functions	Chapter 12	Quiz 1
9	Thursday	23/2/2023	12.4 Implicit Differentiation	Chapter 12	
10	Sunday	26/2/2023	No Class		
11	Tuesday	28/2/2023	12.5 Logarithmic Differentiation	Chapter 12	
12	Thursday	2/3/2023	12.7 Higher Order Derivatives	Chapter 12	
13	Sunday	5/3/2023	13.1 Relative Extrema	Chapter 13	Quiz 2
14	Tuesday	7/3/2023	13.1 Cont.	Chapter 13	
15	Thursday	9/3/2023	13.4 Second Derivative Test	Chapter 13	
16	Sunday	12/3/2023	13.6 Applied Maxima and Minima		
17	Tuesday	14/3/2023	17.1 Partial Derivatives 17.4 Higher Order Partial Derivatives	Chapter 17	Quiz 3
18	Thursday	16/3/2023	17.6 Maxima and Minima for Functions of Two Variables	Chapter 17	
19	Sunday	19/3/2023	Midterm 1	Ch. (11, 12, 13)	
20	Tuesday	21/3/2023	17.6 Cont.	Chapter 17	
21	Thursday	23/3/2023	17.7 Lagrange Multipliers	Chapter 17	
22	Sunday	26/3/2023	14.2 The Indefinite Integral	Chapter 14	
23	Tuesday	28/3/2023	14.3 Integration with Initial Conditions	Chapter 14	Quiz 4
24	Thursday	30/3/2023	14.4 More Integration Formulas	Chapter 14	
25	Sunday	2/4/2023	14.4 Cont.		
26	Tuesday	4/4/2023	14.5 Techniques of Integration	Chapter 14	
27	Thursday	6/4/2023	14.5 Cont.		
28	Sunday	9/4/2023	14.7 The Fundamental Theorem of Integral Calculus	Chapter 14	
29	Tuesday	11/4/2023	17.9 Multiple Integrals	Chapter 17	
30	Thursday	13/4/2023	6.1 Matrices	Chapter 6	
31	Sunday	16/4/2023	6.2 Matrix Addition and Scalar Multiplication 6.3 Matrix Multiplication	Chapter 6	Quiz 5
32	Tuesday	18/4/2023	6.4 Solving Systems by Reduction	Chapter 6	
33	Thursday	20/4/2023	Midterm 2	Ch. (14, 17)	
34	Sunday	23/4/2023	No Class		Eid Break
35	Tuesday	25/4/2023	No Class		Eid Break
36	Thursday	27/4/2023	6.4 Cont.	Chapter 6	
37	Sunday	30/4/2023	6.6 Inverses	Chapter 6	
38	Tuesday	2/5/2023	Review		Quiz 6
39	Thursday	4/5/2023	Review		
40	Monday	8/5/2023	Final Exam: From 2 – 4 PM	All Chapters	

- All dates (EXCEPT for the final) may change due to class circumstances and holidays.