



**The University of Jordan**  
**Accreditation & Quality Assurance Center**

**COURSE Syllabus**

1	Course title	Mathematics for Business and Economics
2	Course number	5203115
3	<i>Credit hours</i> (theory, practical)	3
	<i>Contact hours</i> (theory, practical)	3
4	Prerequisites/corequisites	None
5	Program title	Risk Management and Insurance
6	Program code	03
7	Awarding institution	The University of Jordan / Aqaba Branch
8	Faculty	Management and Finance
9	Department	Risk Management and Insurance
10	Level of course	1
11	Year of study and semester (s)	
12	Final Qualification	B.A.
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	Revised Yearly

**16. Course Coordinator:**

Office numbers, office hours, phone numbers, and email addresses should be listed.

**17. Other instructors:**

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

**18. Course Description:**

*As stated in the approved study plan.*

This course aim to introduce the mathematics in relation to business and economics applications, it consists the rules of linear and quadratic equations and differentiation and there relation to supply, demand, revenue, cost and profit applications. It also introduces the mathematics of finance, integration, and matrices.

**19. Course aims and outcomes:**

<b>A- Aims:</b>
The objectives of this course are:
1. To introduce the rules of mathematics that is related to business and economics.
2. To identify the student of how the rules of mathematics can be applied in business and economics issues.
<b>B- Intended Learning Outcomes (ILOs):</b> Upon successful completion of this course students will be able to ...
1- ability to formulate linear equations for business and economics variables
2- ability to formulate non- linear equations for business and economics variables
3-ability to solve financial applications using compounding technique.
4-ability to find the optimal values of economic and financial functions using derivatives
5-ability to evaluate the consumer and producer benefits if there any change in market prices
6-ability to employ matrix in solving economic functions

**20. Topic Outline and Schedule:**

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Linear equations	1-3		1	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook
Non-Linear equations	4-7		2	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook
Mathematics of finance	8		3	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook
differentiation	9-14		4	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook
integration	15		5	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook
matrix	16		6	Lectures, HW, Quizzes, Short exams, Assignments	Main textbook

**21. Teaching Methods and Assignments:**

Development of ILOs is promoted through the following teaching and learning methods:

- 1- presenting the logic of mathematics in any application
- 2- solving practical case studies
- 3- using excel applications to solve problems

**22. Evaluation Methods and Course Requirements:**

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Exam	Day/Date	Time	Place	Weight
Quizzes, H.W, Short exams, projects, presentations, Assignments, etc.			Class room	30%
Mid- exam			Class room	30%
Final Exam	TBD	TBA		40%

**23. Course Policies:**

A- Attendance policies: according to Jordanian university rules

B- Absences from exams and handing in assignments on time: according to Jordanian university rules

C- Health and safety procedures: according to Jordanian university rules

D- Honesty policy regarding cheating, plagiarism, misbehavior: according to Jordanian university rules

E- Grading policy: according to Jordanian university rules

F- Available university services that support achievement in the course: computer lap , internet

**24. Required equipment:**

The course needs :

**25. References:**

A- Required book (s), assigned reading and audio-visuals:  
Main Textbook: Mathematics for Economics and Business  
By: Ian Jaques 6<sup>th</sup> Edition , Prentice Hall publishers(ISBN:0-273-72228-X)  
B- Recommended books, materials, and media:  
Fundamental of corporate finance (Ross) 8e

**26. Additional information:**

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File