

A	Course Title & Number	MTH 101-Mathematics for Business I													
B	Pre/Co-requisite(s)	MTH 002 or passing the appropriate placement test													
C	Number of credits	3													
D	Faculty Name	Ayman Badawi													
E	Term/ Year	Spring 2015													
F	Sections	<table border="1"> <thead> <tr> <th>Section</th> <th>Days</th> <th>Time</th> <th colspan="2">Instructor</th> </tr> </thead> <tbody> <tr> <td>TBA</td> <td>UTR</td> <td>14:00-14:50</td> <td colspan="2">Ayman Badawi</td> </tr> </tbody> </table>				Section	Days	Time	Instructor		TBA	UTR	14:00-14:50	Ayman Badawi	
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H	Course Description from Catalog	Covers coordinate systems and graphs, matrices, linear systems and applications, topics in the mathematics of finance, elementary linear programming, set theory, counting techniques, permutations and combinations, introduction to probability. Emphasis is placed on techniques and applications.													
I	Course Learning Outcomes	<p>Upon completion of the course, students will be able to:</p> <ol style="list-style-type: none"> Understand the definition of piecewise, linear, quadratic functions and their applications. Understand simple interest and its application. Understand compound interest and its applications. Understand present and future value of annuity and how to differentiate between them. Learn the applications of mathematics of finance in many practical business problems including mortgage and sinking fund problems. Understand how to use augmented matrices to solve systems of linear equations. Understand the subject of matrices and their applications in business problems. Learn the geometric approach to solve linear programming problems. Learn how to use simplex method to solve linear programming problems. Learn the applications of linear programming in business problems. Understand the basic principles of counting including the addition and multiplication principles. Understand the subjects of permutations and combinations and their applications. Learn basic principles of probability. 													
J	Textbook and other Instructional Material and Resources	<p>Title: <i>College Mathematics for Business, Economics, Life Sciences, and Social Sciences-</i> twelfth Edition Author: Raymond A. Barnett, Michael Ziegler and Karl E. Byleen Publisher: Prentice Hall, NJ</p> <p>First reference: Class notes. Second reference: Class Notes (so you got the point. CLASS NOTES ARE EXTREMELY CRUCIAL FOR THIS COURSE) My personal webpage: http://ayman-badawi.com/MTH%20101.html is</p>													

		<p>very helpful (Many old quizzes and exams)</p> <p>Math Learning Center: The Department of Mathematics and Statistics offers a Math Learning Center in NAB239. The goal of this free of charge tutoring service is to provide students with a supportive atmosphere where they have access to assistance and resources outside the classroom. No need to make an appointment-just walk in. Your questions or concerns are welcome to Dr. Saadia Khouyibaba at skhouyibaba@aus.edu or cas-mlc@aus.edu</p>																																																
K	Teaching and Learning Methodologies	Standard white board teaching.																																																
L	Grading Scale, Grading Distribution, and Due Dates	<table border="1"> <tr> <td>93 – 100</td> <td>4.0</td> <td>A</td> <td>76 – 78</td> <td>2.3</td> <td>C+</td> </tr> <tr> <td>90 – 92</td> <td>3.7</td> <td>A-</td> <td>70 – 75</td> <td>2.0</td> <td>C</td> </tr> <tr> <td>86 – 89</td> <td>3.3</td> <td>B+</td> <td>60– 69</td> <td>1.7</td> <td>C-</td> </tr> <tr> <td>82 – 85</td> <td>3.0</td> <td>B</td> <td>50 – 59</td> <td>1.0</td> <td>D</td> </tr> <tr> <td>79 – 81</td> <td>2.7</td> <td>B-</td> <td>Less Than 50</td> <td>0</td> <td>F</td> </tr> </table> <table border="1"> <thead> <tr> <th>Assessment</th> <th>Weight</th> <th>Due Date</th> </tr> </thead> <tbody> <tr> <td>Quizzes</td> <td>15%</td> <td>TBA</td> </tr> <tr> <td>Exam 1</td> <td>25%</td> <td>Wednesday April 1, 2015; 6:00-7:15</td> </tr> <tr> <td>Exam 2</td> <td>25%</td> <td>Tuesday May 19, 2014; 6:00-7:15</td> </tr> <tr> <td>Final Exam</td> <td>35%</td> <td>Final Exam Week</td> </tr> <tr> <td>Total</td> <td>100%</td> <td></td> </tr> </tbody> </table>	93 – 100	4.0	A	76 – 78	2.3	C+	90 – 92	3.7	A-	70 – 75	2.0	C	86 – 89	3.3	B+	60– 69	1.7	C-	82 – 85	3.0	B	50 – 59	1.0	D	79 – 81	2.7	B-	Less Than 50	0	F	Assessment	Weight	Due Date	Quizzes	15%	TBA	Exam 1	25%	Wednesday April 1, 2015; 6:00-7:15	Exam 2	25%	Tuesday May 19, 2014; 6:00-7:15	Final Exam	35%	Final Exam Week	Total	100%	
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M	Explanation of Assessments	<ul style="list-style-type: none"> Quizzes' dates and material will be announced at least one lecture ahead of time. No makeup quizzes will be given. Tentative exam dates are shown in the table below. Refer to the syllabus to see the topics that will make up the material for each exam. With a valid written excuse and making immediate arrangements with the instructor, a missed exam might be replaced with the grade of the final exam and/or the average grade of all tests, quizzes and homework assignments. A scientific (not financial) calculator is required for this course. 																																																
N	Student Academic Integrity Code Statement	Student must adhere to the Academic Integrity code stated in the 2014-2015 undergraduate catalog"																																																

SCHEDULE

Math 101 – Mathematics For Business I Course Syllabus / Weekly Schedule

# of Weeks	Sections	Material	
2 1/2	1.2, 2.1, 2.2	Review, Elementary Functions, Linear Functions	Test I
	2.3, 2.4, 2.5	Quadratic Functions, Exponential Functions, Logarithmic Functions	
3	3.1, 3.2	Simple Interest, Compound Interest	
	3.3, 3.4	Future Value of an Annuity; Sinking Funds, Present Value of Annuity; Amortization	
	Review, 4.1	Review, Systems of Linear Equations in Two Variables	Test II
	4.2, 4.3	Matrices, Gauss Jordan Eliminations	
2 1/2	5.1, 5.2, 5.3	Systems of Linear Inequalities in Two Variables, Linear Programming-A Geometric Approach	
	6.1, 6.2, 6.3	Introduction to Simplex Method, The Simplex Method	
2	7.3, 7.4	Basic Counting Principles, Permutations and Combinations	
1	8.1	Sample Space, Events, and Probability	
	8.2	Union, Intersection, and Complement of Events;	