Applied Business Mathematics

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<tr><td>Course Title</td><td colspan="5">Applied Business Mathematics</td></tr>
<tr><td>Course Code</td><td colspan="5">TMAT-250</td></tr>
<tr><td>Course Type</td><td colspan="5">This course serves as both Elective and Requirement, according to the program.
<table>
<tr><td>Hospitality Bachelor</td><td>Maths Elective</td></tr>
<tr><td>Business Bachelor</td><td>Requirement</td></tr>
<tr><td>All Programs</td><td>General Elective</td></tr>
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<tr><td>Level</td><td colspan="5">Bachelor (1st Cycle)</td></tr>
<tr><td>Year / Semester</td><td colspan="5">Year 3, A’ Semester</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Mariana Pelekanos</td></tr>
<tr><td>ECTS</td><td>6</td><td>Lectures / week</td><td>3</td><td>Laboratories / week</td><td></td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">The course aims to familiarize the students with basic Mathematical concepts required in today’s undergraduate business administration curriculum. Great emphasis is placed upon applications related to business, problem formulation and solving.</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">Upon completion of this course students will be able to:
1. Examine elements of calculus and finite mathematics with emphasis on applications to problems arising in business
2. Compute trade and cash discounts using whole numbers, fractions, decimals and percentages.
3. Calculate simple interest, compound interest and present values using appropriate applications methods to professional standards
4. Identify the proper use of mathematic principles for the generation and calculation of financial statements.
5. Use the appropriate statistical terms, summarize and clarify business data.</td></tr>
<tr><td>Prerequisites</td><td colspan="3">TMAT – 102 College Algebra</td><td>Required</td><td></td></tr>
<tr><td>Course Content</td><td colspan="5">1. Fundamental Review
• Fundamental processes</td></tr>
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Fractions
Decimals
Word problems and equations

2. Percentage Applications

Percentage commissions
Discounts
Markup

3. Accounting applications

Payroll records

4. Interest applications

Simple interest
Installment purchases
Compound interest

5. Business applications

Financial statements

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<tr><td>Teaching Methodology</td><td>The course is delivered through lectures, tutorials, exercises and computerized practice.</td></tr>
<tr><td>Mode of delivery</td><td>Face to face.</td></tr>
<tr><td rowspan="4">Bibliography</td><td>Required</td></tr>
<tr><td>1. Deitz, J.E., and Southam J.L., Contemporary Business Mathematics for Colleges, 15th ed., Thomson South-Western Publishing, 2009.</td></tr>
<tr><td>Recommended</td></tr>
<tr><td>1. Salzman, Miller and Clendenen. Mathematics for Business. 8th ed., Pearson Education, 2007.</td></tr>
<tr><td>Assessment</td><td>The following assessment methods are employed to assess this course:
<table>
<tr><td>30 – 50 %</td><td>Final Exam</td></tr>
<tr><td>20 – 40 %</td><td>Mid –Term / Tests / Quizzes</td></tr>
<tr><td>10 – 30 %</td><td>Assignments / Projects</td></tr>
<tr><td>0 – 10 %</td><td>Class Attendance & Participation</td></tr>
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<tr><td>Language</td><td>English</td></tr>
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