



<p><b>M:</b> Course Objectives / Learning Outcomes</p> <p>At the end of the course, the successful student should be able to:</p> <ol style="list-style-type: none"> <li>1. Use algebra and mathematic skills to solve business problems.</li> <li>2. Use appropriate mathematics skills to solve merchandising problems, including cash and trade discounts, mark-up and mark-down;</li> <li>3. Solve financial problems involving the calculation of simple and compound interest in discount, annuities, investment and management decisions;</li> <li>4. Use linear systems applications to solve break-even analysis problems in two variables positions in business.</li> <li>5. Explain and use basic statistics to interpret.</li> </ol>										
<p><b>N:</b> Course Content:</p> <ol style="list-style-type: none"> <li>1. Review of basic algebra: ratios, proportions, percent, fractions, weighted average, exponents, logarithms, problem-solving logic.</li> <li>2. Use of linear functions to solve business problems. Application of linear functions to a variety of business problems, including percent change, payroll and return on investment, discounts, mark-up, mark-down.</li> <li>3. Business applications involving: linear break-even by quantity, dollar amount, percent of capacity.</li> <li>4. Concepts and applications involving simple interest: time value of money, equivalent values, promissory notes, T bills, commercial papers demand loans.</li> <li>5. Concepts and applications involving compound interest: present, future and equivalent values, continuous compounding, interest rate and number of conversion period calculations, equivalent and effective interest rates.</li> <li>6. Annuities: ordinary annuities, simple annuities, annuities due, complex annuities; loan amortization, mortgages, present and future values, payment, interest rate and conversion period calculations, equivalent effective interest rates.</li> <li>7. Introduction to basic statistics including: mean, median, mode, range, standard deviation, coefficient of variation, empirical rule.</li> </ol>										
<p><b>O:</b> Methods of Instruction</p> <p>Lectures and seminars.</p>										
<p><b>P:</b> Textbooks and Materials to be Purchased by Students</p> <p>Hummelbrunner, S.A., <i>Contemporary Business Mathematics with Canadian Applications, Study Edition 6/3</i>, Latest Edition; Pearson.</p>										
<p><b>Q:</b> Means of Assessment</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="padding-right: 20px;">Assignments</td> <td>15% - 25%</td> </tr> <tr> <td>Term tests (2-6)</td> <td>40% - 50%</td> </tr> <tr> <td>Participation</td> <td>0% - 5%</td> </tr> <tr> <td>Final Examination</td> <td><u>30% - 35%</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>100%</u></td> </tr> </table>	Assignments	15% - 25%	Term tests (2-6)	40% - 50%	Participation	0% - 5%	Final Examination	<u>30% - 35%</u>		<u>100%</u>
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**R:** Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No

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Course Designer(s) **George Stroppa**

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Education Council / Curriculum Committee Representative

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Dean / Director **Rosilyn G. Coulson**

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Registrar