

Unit Outline (continued)

Content	Teaching Strategies/Learning Activities	Assessment	B.C. Curriculum Organizer Linkage
<p>C. Applications of Differentiation</p> <ul style="list-style-type: none"> - Curve sketching (The first derivative test & Concavity) - Optimization problems - Related rates <p>D. Integration</p> <ul style="list-style-type: none"> - The definite integral and constructing antiderivatives - Techniques of integration - The fundamental theorem of calculus 	<p>1. Text used: <i>Calculus: Graphical, Numerical, Algebraic (Finney et. al.)</i></p> <p>(Chapters 4 - 6)</p> <p>Lessons as noted in the course timeline (see page 4)</p> <p>2. Homework and review assignments as tentatively noted in the course timeline.</p> <p>3. Handout and calculator laboratories:</p> <p>Investigating f, f' and f'' What Manufacturers say about max/min</p>	<p>1. Assigned work will be reviewed at the beginning of the next class. After this review, homework will be collected and checked (randomly) at least once a week.</p> <p>2. Brief quizzes as tentatively noted in the course timeline.</p> <p>3. Calculator laboratories collected and checked upon completion.</p> <p>4. Chapter end tests:</p> <p style="padding-left: 40px;">Chpt. 4 (May 11) Chpt. 5 & 6 (June 7)</p> <p>5. Class participation.</p>	<p>H1 - 3 and I1 - 5</p> <p>J1 - 6</p>

Unit Outline (continued)

Content	Teaching Strategies/Learning Activities	Assessment	B.C. Curriculum Organizer Linkage
<p>E. Applications of Integration</p> <ul style="list-style-type: none"> - Application of the definite integral - The area of a region between two curves 	<p>1. Text used: <i>Calculus: Graphical, Numerical, Algebraic (Finney et. al.)</i></p> <p>(Chapters 6 - 7)</p> <p>Lessons as noted in the course timeline (see page 4)</p> <p>2. Homework and review assignments as tentatively noted in the course .</p> <p>3. Worksheets and calculator laboratories:</p> <p>Slope Fields Newton's Law of Cooling</p>	<p>1. Assigned work will be reviewed at the beginning of the next class. After this review, homework will be collected and checked (randomly) at least once a week.</p> <p>2. Brief quizzes as tentatively noted in the course timeline.</p> <p>3. Worksheets and calculator laboratories collected and checked upon completion.</p> <p>4. Final Exam (on FULL year's work) will be during the week of June 17th.</p> <p>5. Class participation.</p>	<p>K1 - 6</p>

Assessment and Evaluation

This course is *not* a provincially examinable course. Tentatively final marks will be based:

25% ... Class and home work

35% ... Short quizzes (at least two per chapter) and tests at the end of each unit

40% ... Examinations ... Midterm and Final (*full* year)

Graphing Calculators

A graphing calculator is **essential** for the Calculus 12 course and examination. We will be using the Texas Instrument TI-83 family of calculators in class. Although there are many other good graphing calculators available we do not have the time or resources to support them all.

Calculus 12 Course Timeline

The course timeline can be found at the following internet address:

<http://members.shaw.ca/ekwasniewski>

Explanation of Work Ethic Indicators

G

You arrive to class on time, prepared with all your supplies, notebooks, texts and other related materials. All your work (home and in class) is completed to the best of your ability. You are making every effort to meet deadlines and due dates and are doing your best to keep your notebooks up-to-date and in good order. During class you are attentive and focussed on the various tasks, assignments and projects. You work well in individual and group situations and you appear to be doing your best. You willingly participate and share ideas. You treat yourself, your peers and adults with the respect inherent in the Gospel values. You display good work habits and effort in all that you do.

S

Most of the time you arrive to class on time and are prepared with all your supplies, notebooks, texts and other related materials. Most of your work (home and in class) is completed to the best of your ability. Although you occasionally miss handing in an assignment, you are making an honest effort to meet deadlines and due dates. You usually do your best to keep your notebooks up-to-date and in good order. During class you are attentive and focussed on the various tasks, assignments and projects with only occasional lapses. You work fairly well in individual and group situations and, on most occasions, appear to be doing your best. You are willing to participate and share ideas. You treat yourself, your peers and adults with the respect inherent in the Gospel values. You display satisfactory work habits and effort most of the time.

N

You frequently arrive unprepared for class. You are sometimes missing supplies, notebooks, texts and other related materials. On occasion, you are reluctant to put forth the effort to keep your materials and assignments organized. Homework and assignments are often incomplete or poorly done. During class, you are sometimes unfocussed and easily distracted. You participate infrequently in class discussions. You sometimes treat yourself, your peers and adults with a lack of the respect inherent in the Gospel values. Your work habits need to improve.