



## Course Information Sheet

**Course Title    Calculus & Vectors – University**

**Course Code     MCV4U0**

What do you do in this course?	What you do NOT do in this course.
<ul style="list-style-type: none"> <li>• Build on knowledge of functions and developing understanding of rates of change.</li>   <li>• Solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships</li> </ul> <p>Refine use of the mathematical processes necessary for success in senior mathematics.</p> <p>This course is intended for students who choose to pursue career fields in such areas as: science, engineering, economics, and some areas of business. It is also for students who will be required in their first year of study to take a university level calculus, linear, algebra, or physics course.</p>	

Recommended knowledge/skills for successful completion
<ul style="list-style-type: none"> <li>• Strong learning skills</li> <li>• Leadership and communication skills</li> <li>• An interest in math or math related fields of work/study (sciences, engineering, computer science, etc.)</li> <li>• Initiative—seek out opportunities to further learn and ask questions in order to improve achievement</li> </ul>

<u>Other (e.g. homework commitment)</u>
<p>As mathematical concepts build on each other throughout a course, students are expected to keep up with course expectations by consistently completing homework and verifying solutions</p>

**Please note:** This form will assist students/parents in selecting courses that reflect the aptitudes and interests of the student. Be sure to check the common course calendar for a required prerequisite.

