

# MATH 103

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**MATH 103 Differential Calculus With Applications**

3 Credits

Mathematics 103 is a one semester differential calculus course with special emphasis on function properties, function sketching and applications. Topics in this course include: limits, first and second derivatives, implicit derivatives, L'Hopital's rule and differentials. The emphasis in the discussion of these topics is on function properties and function sketching. Function properties emphasized include domain, range, symmetry, periodicity, intercepts, asymptotes, slope and curvature. Function types considered in this course include: linear, quadratic, polynomial, rational, root, exponential, logarithm, trigonometric, inverse trigonometric, elliptic and hyperbolic. Applications will be taken from Physics, Chemistry, Biology and the Earth Sciences depending upon the background and interests of the student body and will include optimization, related rates and linear approximations.

**Transfer Credits**

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

