Applied Mathematics 217 — Calculus for Engineers and Scientists

(see Course Descriptions for the applicable academic year: http://www.ucalgary.ca/pubs/calendar/)

Syllabus

Topics	**Number of Hours**
Limits and Continuity	7
Derivatives and their basic properties, rules of differentiation, the mean value theorem, L'Hospital's rule	6
Application of derivatives: related rates, graphing, maximization, linearization, Newton's method	6
Antiderivatives, the definite integral, the fundamental theorem, substitutions	6
Exponentials and logarithms, inverse functions, growth and decay, inverse trigonometric functions, hyperbolic functions	7
Applications of integration: areas, volumes of revolution, volumes by slicing, arc length, surfaces of revolution	4
TOTAL	36

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