

FCE 162: Pure Mathematics IB Course Description

The course covers the following key areas; Applications of Differential Calculus: Trigonometric functions; their derivatives, stationary points, minima and maxima problems. Increasing and decreasing functions. Small increments, tangents. Applications of differentiation to curve sketching; convex inflexion points. Polar Coordinates. Integral Calculus Integration as inverse of differentiation. Definite integral as limit of sum. Standard forms. Application of integration to area, volume.