Catalog Description:
This is the second of a two semester course sequence. The topics covered in Math 1141 will include differential calculus of one real variable, with review of important algebra and pre-calculus concepts. Math 1141 is a course designed with an emphasis on reviewing these fundamental pre-calculus skills as they apply to calculus.

Prerequisite:
A grade of C- or above in 1140.

Exclusions:
Not open to students with credit for 1151 or above, or 151.xx or above.

Text:
calculus with review developed by XIMERA

Topics List:

V.25 Review of Limits
V.26 Review of differentiation
V.27 Linear approximation
V.28 Concepts of graphing functions
V.29 Implicit differentiation
V.30 Logarithmic differentiation

Midterm 1

VI.31 Inverse Trigonometric Functions
VI.32 Derivatives of inverse trigonometric functions
VI.33 More than one rate
VI.34 Applied related rates
VI.35 L'Hopital's rule
VI.36 Antiderivatives
VI.37 Differential Equations

Midterm 2

VII.38 Approximating the area under a curve
VII.39 Definite integrals
VII.40 Antiderivatives and area
VII.41 First Fundamental Theorem of Calculus
VII.42 Second Fundamental Theorem of Calculus
VII.43 Applications of integrals

Midterm 3

VIII.44 The idea of substitution
VIII.45 Working with substitution

Final