



Education within the reach of all  
A Ministry of Calvary Chapel-Port-au-Prince  
(509) 2209-5686 - [administration@uespoir.edu.ht](mailto:administration@uespoir.edu.ht) - [www.uespoir.edu.ht](http://www.uespoir.edu.ht)

## Syllabus

### Course Title

### CALCULUS II

#### I. Integrals

1.1 Antiderivatives and Indefinite Integrals

1.2 Area

1.3 Riemann Sums and Definite Integrals

1.4 Fundamental Theorem of Calculus

1.5 Integration by Substitution

#### II. Integration of Transcendental Functions

2.1 Integration of Logarithmic and Exponential Functions.

2.2 Integration of Trigonometric Functions and Inverse Trigonometric Functions

2.3 Integration of Hyperbolic Functions and Inverse Hyperbolic Functions

2.4 Fundamental Differential Equations

#### 3. Integration Techniques, L'Hôpital's Rule, and Improper Integrals

#### 4. Vectors, Space Geometry, and Vector Functions

#### 5. Multiple Integrals and Vector Analysis

#### 6. Evaluation Methods: Assignments and Exams