

章節	週次	課程進度
1. Functions and Models	第一週 9/11、9/13	[1.5] Exponential Functions [1.6] Inverse Functions and Logarithms
2. Limits and Derivatives		第二週 9/18、9/20
	[2.4] The Precise Definition of a Limit [2.5] Continuity 9/20(五)中秋節連續放假一天	
	第三週 9/25、9/27	[2.6] Limits at Infinity; Horizontal Asymptotes [2.7] Derivatives and Rates of Change [2.8] The Derivative as a Function [3.1] Derivatives of Polynomials and Exponential Functions
3. Differentiation Rules	第四週 10/2、10/4	[3.2] The Product and Quotient Rules [3.3] Derivatives of Trigonometric Functions [3.4] The Chain Rule [3.5] Implicit Differentiation
		第五週 10/9、10/11
	4. Applications of Differentiation	第六週 10/16、10/18
第七週 10/23、10/25		[4.3] How Derivatives Affect the Shape of a Graph [4.4] Indeterminate Forms and L'Hospital's Rule [4.5] Summary of Curve Sketching [4.6] Graphing with Calculus and Calculators (※) [4.7] Optimization Problems
		第八週 10/30、11/1
5. Integrals	第九週 11/6、11/8	[5.4] Indefinite Integrals and the Net Change Theorem [5.5] The Substitution Rule 緩衝時間
		11/9(六) 13:30~16:00 期中考 考試範圍 1.5~5.5 (英文命題)

6. Applications of Integration	第十週 11/13、11/15	[6.1] Areas Between Curves [6.2] Volumes [6.3] Volumes by Cylindrical Shells [6.4] Work (※)
		11/15(五) 本校校慶 停課一天
7. Techniques of Integration	第十一週 11/20、11/22	[6.5] Average Value of a Function [7.1] Integration by Parts [7.2] Trigonometric Integrals
		[7.3] Trigonometric Substitution [7.4] Integration of Rational Functions by Partial Fractions
	第十二週 11/27、11/29	[7.5] Strategy for Integration [7.6] Integration Using Tables and Computer Algebra Systems [7.7] Approximate Integration
		[7.8] Improper Integrals
8. Further Applications of Integration	第十三週 12/4、12/6	[8.1] Arc Length
		緩衝時間 [8.2] Area of a Surface of Revolution [8.3] Applications to Physics and Engineering [8.4] Applications to Economics and Biology (※) [8.5] Probability (※)
9. Differential Equations	第十四週 12/11、12/13	[9.1] Modeling with Differential Equations [9.2] Direction Fields and Euler's Method
		[9.3] Separable Equations [9.4] Models for Population Growth
	第十五週 12/18、12/20	[9.5] Linear Equations [9.6] Predator-Prey Systems (※)
		緩衝時間
10. Parametric Equations and Polar Coordinates	第十六週 12/25、12/27	[10.1] Curves Defined by Parametric Equations [10.2] Calculus with Parametric Curves
		[10.3] Polar Coordinates [10.4] Areas and Lengths in Polar Coordinates [10.6] Conic Sections in Polar Coordinates
	第十七週 1/1、1/3	1/1(三) 開國紀念日
		緩衝時間
1/4(六) 13:30~16:00 期末考 考試範圍 6.1~10.6 (英文命題)		