章節	週次	課程進度
1. Functions and	lis viii	[1.5] Exponential Functions
Models		[1.6] Inverse Functions and Logarithms
2. Limits and Derivatives	第一週 9/17、9/19	[2.1] The Tangent and Velocity Problems
	9/17 \ 9/19	[2.2] The Limit of a Function
		[2.3] Calculating Limits Using the Limit Laws
	第二週 9/24、9/26	[2.4] The Precise Definition of a Limit
		[2.5] Continuity
		[2.6] Limits at Infinity; Horizontal Asymptotes
		[2.7] Derivatives and Rates of Change
		[2.8] The Derivative as a Function
	第三週	[3.1] Derivatives of Polynomials and Exponential Functions
	10/1 \ 10/3	[3.2] The Product and Quotient Rules
		[3.3] Derivatives of Trigonometric Functions
	第四週 10/8、10/10	[3.4] The Chain Rule
		[3.5] Implicit Differentiation
		10/10(五)國慶紀念日放假一天
3. Differentiation		[3.6] Derivatives of Logarithmic Functions
Rules		[3.7] Rates of Change in the Natural and Social Sciences (💥)
	第五週 10/15、10/17	[3.8] Exponential Growth and Decay
		[3.9] Related Rates
		[3.10] Linear Approximations and Differentials
		[3.11] Hyperbolic Functions (💥)
	第六週 10/22、10/24	緩衝時間
		[4.1] Maximum and Minimum Values
		[4.2] The Mean Value Theorem
	第七週 10/29、10/31	[4.3] How Derivatives Affect the Shape of a Graph
4. Applications of		[4.4] Indeterminate Forms and L'Hospital's Rule
Differentiation		[4.5] Summary of Curve Sketching
		[4.6] Graphing with Calculus and Calculators (🔆)
		[4.7] Optimization Problems
		[4.8] Newton's Method (💥)
	第八週	[4.9] Antiderivatives
5. Integrals	11/5 \ 11/7	[5.1] Areas and Distances
		緩衝時間
	期中考 1	1/8(六) 09:00~11:30 考試範圍 1.5~4.9 (英文命題)
		[5.2] The Definite Integral
	第九週	[5.3] The Fundamental Theorem of Calculus
	11/12 \ 11/14	[5.4] Indefinite Integrals and the Net Change Theorem
		[5.5] The Substitution Rule

	第十週 11/19、11/21 第十一週 11/26、11/28	[6.1] Areas Between Curves
6. Applications of Integration7. Techniques of Integration		[6.2] Volumes
		[6.3] Volumes by Cylindrical Shells
		[6.4] Work (※)
		[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 12/3、12/5 第十三週 12/10、12/12	[7.5] Strategy for Integration
		[7.6] Integration Using Tables and Computer Algebra Systems (💥)
		[7.7] Approximate Integration (**)
		[7.8] Improper Integrals
		[8.1] Arc Length
8. Further		緩衝時間
		[8.2] Area of a Surface of Revolution
Applications of Integration		[8.3] Applications to Physics and Engineering
		[8.4] Applications to Economics and Biology (🔆)
		[8.5] Probability (💥)
	第十四週 12/17、12/19	[9.1] Modeling with Differential Equations
		[9.2] Direction Fields and Euler's Method
9. Differential		[9.3] Separable Equations
		[9.4] Models for Population Growth
Equations	第十五週 12/24、12/26	[9.5] Linear Equations
		[9.6] Predator-Prey Systems (**)
		緩衝時間
10. Parametric Equations and Polar Coordinates	第十六週 12/31、1/2	[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	緩衝時間
	1/7 \ 1/9	緩衝時間
	期末考 1/	10(六) 09:00~11:30 考試範圍 5.1~10.6 (英文命題)