MATH 1520C (2014-15)
Course Information

Here is the tentative outline for the class. You are suggested to read the indicated sections in the textbook before each lecture.

Tuesday (8:30am - 10:15am) **Venue: YIA LT6**	**Thursday (9:30am - 10:15am)** **Venue: YIA LT6**
Jan 6 Functions and Graphs, Limits (§1.1-1.5)	**Jan 8** Limits and Continuity (§1.5-1.6)
Jan 13 Continuity, Derivatives, Derivatives of Power Forms, Products and Quotients (§1.6, 2.1-2.3)	**Jan 15** Chain Rule and Applications (§2.4)
Jan 20 Marginal Analysis, Implicit Differentiation and Related Rates (§2.5-2.6)	**Jan 22** Increasing and Decreasing Functions; Relative Extrema (§3.1)
Jan 27 Concavity and Points of Reflection, Curve Sketching (§3.1-3.3)	**Jan 29** Curve Sketching, Optimization and Applications (§3.3)
Feb 3 Optimization and Applications (§3.4-3.5); Exponential and Logarithmic Functions (§4.1-4.3)	**Feb 5** Indefinite Integrals (§5.1)
Feb 10 Indefinite Integrals (§5.1) Integration by Substitution (§5.2)	**Feb 12** Test I
Feb 17 Integration by Substitution (§5.2) Integration by Parts (§6.1)	**Feb 19** Lunar New Year Vacation
Feb 24 Lunar New Year Vacation	**Feb 26** Definite Integral and the Fundamental Theorem of Calculus (§5.3)
Mar 3 Definite Integral and the Fundamental Theorem of Calculus (§5.3)	**Mar 5** Integration by Parts; Improper Integrals (§6.1 & §6.3)
Mar 10 Area, Average Value and Other Applications of Definite Integrals (§5.4-5.6)	**Mar 12** Test II
Mar 17 Area, Average Value and Other Applications of Definite Integrals (§5.4-5.6)	**Mar 19** First Order ODE (§9.2)
Mar 24 Applications of ODE (§9.3)	**Mar 26** Applications of ODE (§9.3)
Mar 31 Probability and Calculus, Continuous Random Variable, Probability Density Functions (§11.1-11.2)	**Apr 2** Probability and Calculus, Continuous Random Variable, Probability Density Functions (§11.1-11.2)

Apr 7 Public holiday – Easter	**Apr 9** Probability and Calculus, Continuous Random Variable, Probability Density Functions (§11.1-11.2)
Apr 14 Expected Values; Variances and Standard Deviations (§11.3)	**Apr 16** Revision