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	Jan 8
Functions and Graphs, Limits (§1.1-1.5)	Limits and Continuity (§1.5-1.6)
Jan 13	Jan 15
Continuity, Derivatives, Derivatives of	Chain Rule and Applications (§2.4)
Power Forms, Products and Quotients (§1.6, 2.1-2.3)	
Jan 20	Jan 22
Marginal Analysis, Implicit Differentiation	Increasing and Decreasing Functions;
and Related Rates (§2.5-2.6)	Relative Extrema (§3.1)
Jan 27	Jan 29
Concavity and Points of Reflection, Curve	Curve Sketching, Optimization and
Sketching (§3.1-3.3)	Applications (§3.3)
Feb 3	Feb 5
Optimization and Applications (§3.4-3.5);	Indefinite Integrals (§5.1)
Exponential and Logarithmic Functions	
(§4.1-4.3)	
Feb 10	Feb 12
Indefinite Integrals (§5.1)	Test I
Integration by Substitution (§5.2)	
Feb 17	Feb 19
Integration by Substitution (§5.2)	Lunar New Year Vacation
Integration by Parts (§6.1)	
Feb 24	Feb 26
Lunar New Year Vacation	Definite Integral and the Fundamental
	Theorem of Calculus (§5.3)
Mar 3	Mar 5
Definite Integral and the Fundamental	Integration by Parts; Improper Integrals (§6.1
Theorem of Calculus (§5.3)	& §6.3)
Mar 10	Mar 12
Area, Average Value and Other Applications	Test II
of Definite Integrals (§5.4-5.6)	
Mar 17	Mar 19
Area, Average Value and Other Applications	First Order ODE (§9.2)
of Definite Integrals (§5.4-5.6)	
Mar 24	Mar 26 Applications of ODE (80.2)
Applications of ODE (§9.3)	Applications of ODE (§9.3)
Mar 31 Dechability and Coloules Continues	Apr 2 Drehahility and Calaulus Continues
Probability and Calculus, Continuous	Probability and Calculus, Continuous
Functions (811.1-11.2)	Functions (811 1-11 2)
Mar 3 Definite Integral and the Fundamental Theorem of Calculus (§5.3) Mar 10 Area, Average Value and Other Applications of Definite Integrals (§5.4-5.6) Mar 17 Area, Average Value and Other Applications of Definite Integrals (§5.4-5.6) Mar 24 Applications of ODE (§9.3) Mar 31 Probability and Calculus, Continuous Random Variable, Probability Density Functions (§11.1-11.2)	Theorem of Calculus (§5.3) Mar 5 Integration by Parts; Improper Integrals (§6.1 & §6.3) Mar 12 Test II Mar 19 First Order ODE (§9.2) Mar 26 Applications of ODE (§9.3) Apr 2 Probability and Calculus, Continuous Random Variable, Probability Density Functions (§11.1-11.2)

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