

Fall 2014 Course Information

Here is the tentative outline for the class. Please read the indicated sections before each lecture.

Wednesday (10:30am-12:15pm)	Thursday (1:30pm-2:15pm)
Sep 3 Functions and Graphs, Limits (1.1-1.5)	Sep 4 Limit and Continuity (1.5-1.6)
Sep 10 Continuity, Derivatives, Derivatives of power forms, products and quotients (1.6, 2.1-2.3)	Sep 11 Chain rule and applications (2.4)
Sep 17 Marginal analysis, Implicit differentiation and related rates; (2.5-2.6)	Sep 18 Increasing and decreasing functions, Relative Extrema (3.1)
Sep 24 Concavity and Points of inflection, Curve sketching (3.1-3.3)	Sep 25 Curve sketching, Optimization and applications (3.3-3.4)
Oct 8 Optimization and applications, Exponential functions (3.4, 4.1)	Oct 9 Exponential and logarithmic functions function (4.2-4.3)
Oct 15 Exponential and logarithmic functions (4.3), Indefinite integral. (5.1)	Oct 16 Indefinite integral (5.1-5.2)
Oct 22 Integration by substitution (5.2)	Oct 23 Definite integral and Fundamental Theorem of Calculus(5.3)
Oct 29 Definite integral and Fundamental Theorem of Calculus(5.3)	Oct 30 Area, average value and applications of definite integral (5.4-5.5)

<p>Nov 5</p> <p>Integration by parts; Improper integrals (6.1-6.2)</p>	<p>Nov 6</p> <p>ODE (basic concepts), Separation of variables, First order ODE (8.1, 8.2)</p>
<p>Nov 12</p> <p style="text-align: center;">Test</p>	<p>Nov 13</p> <p>First order ODE, Applications of ODE (8.2-8.3)</p>
<p>Nov 19</p> <p>Applications of ODE (8.3)</p>	
<p>Nov 26</p> <p>Probability and calculus, Continuous random variable, Probability density function (10.1-10.2)</p>	<p>Nov 27</p> <p>Expected values, variances and standard deviations (10.3)</p>
