

Week	Dates	Syllabus(Math 118) 2016-3 (Summer)
1	July 3-July 7	5.6 The Method of Substitution Ch 6: Techniques of Integration 6.1 Integration by Parts 6.2 Integrals of Rational Functions 6.3 Inverse Substitutions 6.5 Improper Integrals
2	July 10-July 14	Ch 7: Applications of Integration 5.7 Areas of Plane Regions 7.1 Volumes by Slicing—Solids of Revolution 7.2 More Volumes by Slicing 7.3 Arc Length and Surface Area Ch. 9: Sequences, Series, and Power Series 9.1 Sequences and Convergence 9.2 Infinite Series 9.3 Convergence Tests for Positive Series ☺Midterm 1 (July.13, 2017 Thursday at 15:00)
3	July 17-July 21	9.3 Convergence Tests for Positive Series 9.4 Absolute and Conditional Convergence 9.5 Power Series 9.6 Taylor and Maclaurin Series 9.7 Applications of Taylor and Maclaurin Series
4	July 24- July 28	Ch. 10: Vectors and Coordinate Geometry in 3-Space 10.1 Analytic Geometry in Three Dimensions 10.2 Vectors 10.3 The Cross Product in 3-Space 10.4 Planes and Lines 10.5 Quadric Surfaces Ch. 12: Partial Differentiation 12.1 Functions of Several Variables 12.2 Limits and Continuity ☺Midterm 2 (July.27, 2017 Thursday at 15:00)
5	July 31- August 4	12.3 Partial Derivatives 12.4 Higher-Order Derivatives 12.5 The Chain Rule 12.6 Linear Approximations 12.7 Gradients and Directional Derivatives 12.8 Implicit Functions (“Systems of Equations” is <u>not</u> included) Ch. 13: Applications of Partial Derivatives 13.1 Extreme Values
6	August 7- August 11	13.2 Extreme Values of Functions Defined on Restricted Domains 13.3 Lagrange Multipliers Ch. 14: Multiple Integration 14.1 Double Integrals 14.2 Iteration of Double Integrals in Cartesian Coordinates
		☺Final Exam (Aug 11, 2017 Friday at 18:00)