Math 1352

2005 Fall Semester

Monday	Tuesday	Wednesday	Thursday	Friday
August 29 First Day of Classes	*August 30* 6.1: area between curves, area using vertical strips, area using horizontal strips	*August 31*	*September 1* 6.2: method of cross sections, method of disks and washers, method of cylindrical shells	*September 2*
September 5 ***Labor Day***	*September 6* 6.3: polar coordinates, polar graphs, intersection of polar curves, area for polar coordinates HW01: Due 6.1-6.2	*September 7* WW01: Due 6.1-6.2	*September 8* 6.4: arc length of a curve, area of a surface of rotation, polar arc length and surface area	*September 9*
September 12	*September 13* 6.5: work, fluid pressure and force, centroids and moments in the plane, theorem of Pappus HW02: Due 6.3-6.4	*September 14* WW02: Due 63.-6.4	*September 15* 6.6:future and present value of income flow, consumer and producer surplus, survival and renewal, blood flow through arteries	*September 16*
September 19	*September 20* 7.1-7.2: review of substitution, use of tables, (begin) integration by parts HW03: Due 6.5-6.6	*September 21* WW03: Due 6.5-6.6	*September 22* 7.2-7.3: integration by parts, repeated integration by parts, definite integration by parts, (begin) trigonometric substituti-on: powers of sine and cosine Review Session 7:00 pm	*September 23*
September 26	*September 27* Exam I (6.1-6.2)	*September 28*	*September 29* 7.3: trigonometric substiution: powers of secant and tangent, quadratic-form integrals	*September 30*
October 3	*October 4* 7.4: partial fraction decom-positions, Heaviside method, integrating rational functions, rational functions of sine and cosine HW04: Due 7.1-7.3	*October 5* WW04: Due 7.1-7.3	*October 6* 7.5-7.6: strategies for integration, first-order linear differential equations, applications of first-order equations	*October 7*

Math 1352

2005 Fall Semester

Monday	Tuesday	Wednesday	Thursday	Friday
October 10 ***Columbus Day (Observed)***	*October 11* 7.7: improper integrals with infinite limits of integration, improprer integrals with unbounded integrands HW05: Due 7.4-7.6	*October 12* WW05: Due 7.4-7.6	*October 13* 7.8: hyperbolic functions, derivatives and integrals of hyperbolic functions, inverse hyperbolic functions	*October 14*
October 17	*October 18* 8.1: sequences, limits of sequences, bounded sequences, monotonic sequences, sandwich (squeeze) theorem for sequences HW06: Due 7.7-7.8	*October 19* WW06: Due 7.7-7.8	*October 20* 8.2: definition of infinite series, general properties, geometric series, applications of the geometric series Review Session 7:00 pm	*October 21*
October 24 Mid-Semester Grades Due	*October 25* Exam II (7.1-7.8)	*October 26*	*October 27* 8.3: divergence test, series of non-negative numbers, integral test, p-series	*October 28*
October 31 ***Halloween*** Last Day to Withdraw	*November 1* 8.4-8.5: direct comparison test, limit comparison test, ratio test, root test HW07: Due 8.1-8.3	*November 2* WW07: Due 8.1-8.3	*November 3* 8.6: alternating series test, error estimates for alternating series, absolute and conditional convergence, summary of tests	*November 4*
November 7	*November 8* 8.7: convergence of a power series, term-by-term differentiation and integration of power series HW08: Due 8.4-8.6	*November 9* WW08: Due 8.4-8.6	*November 10* 8.8: Taylor and Maclaurin polynomials, Taylor's theorem, Taylor and Maclaurin series, operations on Taylor and Maclaurin series	*November 11* ***Veterans Day***
November 14	*November 15* 9.1-9.2: introduction to vectors, vectors in component form, standard representations in the plane, coordinates in space, graphs in space, spheres and cylinders HW09: Due 8.7-8.8	*November 16* WW09: Due 8.7-8.8	*November 17* 9.2-9.3: vectors in space, definition and basic properties of dot product, angle between vectors, direction cosines, projections Review Session 7:00 pm	*November 18*

Math 1352

2005 Fall Semester

Monday	Tuesday	Wednesday	Thursday	Friday
November 21	*November 22* Exam III (8.1-8.8)	*November 23*	*November 24* ***Thanksgiving***	*November 25*
		Thanksgiving Holiday		
November 28	*November 29* 9.4: definition and basic properites of the cross product, geometric interpretation of the cross product, applications of the cross product: area and torque, triple scalar product HW10: Due 9.1-9.3	*November 30* WW10: Due 9.1-9.3	*December 1* 9.5: parametric equations, param-etrizing a curve, lines in space Period of No Exams	*December 2*
December 5	*December 6* 9.6: forms for the equation of a plane in space, vector methods for measuring distances in space HW11: Due 9.4-9.5	*December 7* Last Day of Classes WW11: Due 9.4-9.5	*December 8* Review Session 3:00 pm	*December 9* University Final Exams Begin
Period of No Exams				
December 12 Departmental Final Exam (10:30)	*December 13*	*December 14*	*December 15*	*December 16*
December 19	*December 20*	*December 21*	*December 22*	*December 23*
December 26	*December 27*	*December 28*	*December 29*	*December 30*