MA 114 Calendar Spring 2010

Date	Topic	Due Dates	Textbook Problems (not optional)
13-Jan	§11.1: Sequences		§11.1: 4, 12, 22, 24, 30
15-Jan	§11.1: Sequences (continued)		§11.1: 40, 64
18-Jan	Martin Luther King Day		
19 Jan	*Assignment 1 distributed to students*		
20-Jan	§11.2: Series		§11.2: 2, 14, 16, 20, 22, 42
22-Jan	§11.2: Series (continued)		§11.2: 32, 38, 50
25-Jan	§11.4: Comparison tests		§11.4: 4, 12, 26, 28, 30
27-Jan	§11.5: Alternating series	*Assgn 1 due in class*	§11.5: 4, 8, 12, 14, 26, 32
28-Jan	*Assignment 2 distributed to students*		
29-Jan	§11.6: Absolute convergence; Ratio and root tests		§11.6: 4, 8, 14, 18, 26
01-Feb	§11.7: Strategy for testing series		§11.7: 4, 8, 22, 26, 32, 34, 38
03-Feb	§11.8: Power series		§11.8: 8, 10, 14, 30
05-Feb	§11.9: Representations of functions as power series		§11.9: 6, 16, 28
08-Feb	Review	*Assgn 2 due in class*	
09-Feb	**Exam I (7:30-9:30 p.m., CP 139)**		
10-Feb	§11.10: Taylor and Maclaurin series		§11.10: 12, 34, 40, 44
11-Feb	*Assignment 3 distributed to students*		
12-Feb	§11.10: Taylor and Maclaurin series (continued)		§11.10: 18, 20, 28, 54
15-Feb	§5.5: The substitution rule		§5.5: 10, 12, 18, 38, 40, 52, 16, 20, 36, 42, 64, 66
17-Feb	§6.1: Area between curves	*Assgn 3 due in class*	§6.1: 8, 14, 20, 30
18-Feb	*Assignment 4 distributed to students*		
19-Feb	§6.2: Volumes		§6.2: 4, 10, 14, 52
22-Feb	§6.3: Volumes by cylindrical shells		§6.3: 4, 8, 10, 18, 44
24-Feb	§6.4: Work (for springs and cables)		§6.4: 8
26-Feb	§7.1: Integration by parts		§7.1: 6, 10, 26, 30
01-Mar	§7.2: Trigonometric integrals		§7.2: 6, 12, 20, 30, 34
03-Mar	§7.3: Trigonometric substitution	*Assgn 4 due in class*	§7.3: 2, 4, 6, 8, 22
05-Mar	§7.3: Trigonometric substitution (continued)		
08-Mar	Review		
09-Mar	**Exam II (7:30-9:30 p.m., Room TBA)**		
10-Mar	§3.11: Hyperbolic functions		§3.11: 4, 12, 16, 20, 44
11-Mar	*Assignment 5 distributed to students*		
12-Mar	§8.1: Arc length		§8.1: 8, 12, 16, 40a
Mar 15-19	Spring Break		
22-Mar	§7.4: Partial fractions		§7.4: 2, 4, 18, 20, 26
24-Mar	§7.5: Strategy for integration	*Assgn 5 due in class*	§7.5: 4, 6, 26, 48, 52, 62
25-Mar	*Assignment 6 distributed to students*		
26-Mar	§7.7: Numerical integration (Last day to drop)		§7.7: 6a, 8a,b, 20
29-Mar	§7.7: Numerical integration (continued)		§7.7: 6b, 8c, 22, 30
31-Mar	§7.8: Improper integrals		§7.8: 14, 16, 28, 30, 32, 54
02-Apr	§11.3: Integral test		§11.3: 16, 22, 32

05-Apr	§9.1: Modeling with differential equations		
07-Apr	§9.2: Direction fields and Euler's method		§9.2: 2, 3-6, 24, 25b, 28a
09-Apr	§9.3: Separable equations	*Assgn 6 due in class*	§9.3: 2, 16, 34
12-Apr	Review		
13-Apr	**Exam III (7:30-9:30 p.m., Room TBA)**		
14-Apr	§9.4: Population growth		§9.4: 4, 6, 10, 14
16-Apr	§10.1: Parametric equations		§10.1: 6, 14, 16, 22, 26
19-Apr	§10.2: Calculus with parametric curves		§10.2: 4, 8, 10
21-Apr	§10.2: Calculus with parametric curves (continued)		§10.2: 14, 28, 32, 42
23-Apr	§10.3: Polar coordinates		§10.3: 6, 18, 34, 44, 56, 52, 54, 68, 70
26-Apr	§10.4: Areas and lengths in polar coordinates		§10.4: 14, 18, 24, 30, 48
28-Apr	§10.4: Areas and lengths in polar coordinates (continued)		
30-Apr	Review		
05-May	**Final exam (10:30 AM – 12:30 PM)**		