

Note:	Each lesson =1 hour class	Text: <u>Larson,Hostetler,Edwards</u>	<u>Calculus, 7th or 8th ed</u>
Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
1	Review:Inverse Functions	5.3/p.338/8	5.3/p.347/8
		16	16
		19	19
		36	36
		43	43
		51	51
		63	63
		73	73
		101	101
2	Inverse Trig Functions:	5.8/p.386/5	5.6/p.377/5
	Differentiation	7	7
		9	9
		17a	17a
		33	33
		37	37
		41	41
		45	45
		49	49
		64	72
3	Inverse Trig Functions:	5.9/p.393/1	5.7/p.385/1
	Integration	7	23
		10	6
		11	7
		17	25
		19	27
		21	13
		51	55
		55	59
		62	74
4	MATLAB PROJECT 1	Intro to Symbolic Math	
5	Hyperbolic Functions	5.10/p.403/1	5.8/p.396/1
		17	17
		19	19
		23	23
		39	39
		41	41
		43	43
		53	49
6	Area of Region bet 2 curves	6.1/p.418/1	7.1/p.452/1
		3	3
		8	8
		19	21
		23	25
		28	30
		29	31
		37	39
		79	90

Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
7	Volume: Disk Method	6.2/p.428/1	7.2/p.463/1
		4	4
		5	5
		7	7
		9	9
		11	11
		23	23
		27	27
		43	45
		51	51
	MATLAB proj 2	Applications of Integration	Due by Lesson 12
8 & 9	Volume: Shell Method	6.3/p.437/1	7.3/p.472/1
		3	3
		7	7
		11	11
		15	15
		17	21
		21	27
		22	28
10	Arc Length	6.4/p.447/1	7.4/p.483/1
		3	3
		12	17
		17	21
		29	35
11	Moments, Centers of Mass	6.6/p.467/1	7.6/p.504/1
		9	9
		13	13
		16	16
		19	19
		25	25
		28	28
12	Review for EXAM # 1		
13 & 14	EXAM # 1		
15	Basic Integration Rules	7.1/p.486/1	8.1/p.522/1
		2	2
		8	8
		11	11
		19	18
		21	19
		25	23
		29	27
		33	31
		49	45
		61	59

Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
16 & 17	Integration by Parts	7.2/p.494/1	8.2/p.531/1
		11	11
		15	15
		17	17
		19	19
		27	27
		33	33
		37	37
		38	38
		50	50
		52	52
		53	53
18	Trig Integrals: $\sin x$ & $\cos x$	7.3/p.503/3	8.3/p.540/5
		4	6
		6	8
		11	13
		39	43
		61	65
		83	88
19	Trig Substitution $\sin x$ & $\tan x$	7.4/p.512/5	8.4/p.549/5
		6	6
		13	13
		23	25
		24	26
20 & 21	Partial Fractions	7.5/522/7	8.5/p.559/7
		13	13
		15	15
		23	23
		29	29
		31	31
		58	60
		61	63
22	Summary: Techniques of	Integration	
23	Integration by Tables	7.6/p.528/5	8.6/p.565/5
		7	7
		13	13
		23	45
		25	21
		47	39
		71	71
		72	72
		76	76
		84	86
24	MATLAB Project 3	Integration	

Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
25	Indeterminate Forms	7.7/p.537/5	8.7/p.574/5
	L'Hopital's Rule	10	10
		11	11
		15	15
		21	21
		33	33
		39	39
		45	45
		54	54
		63	65
		65	67
		69	63
		73	73
		75	75
		89	91
		90	92
26	Improper Integrals	7.8/p.547/1	8.8/p.585/5
		3	3
		5	9
		9	15
		15	21
		21	27
		27	33
		31	37
		33	39
		75	79
27	Review for EXAM # 2		
28 & 29	EXAM # 2		
30	Sequences	8.1/p.564/1	9.1/p.602/1
		3	3
		29	29
		33	33
		80	80
		81	83
		85	87
		88	90
		90	93
		91	95
		92	96
		104(extra)	110(extra)
31 & 32	Series and Convergence	8.2/p.573/1	9.2/p.621/1
		5	5
		11	11
		21	23
		23	25
		34	36
		37	39
		39	41
		55	61
		61	67

Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
33	Integral Test & p-series	8.3/p.580/1	9.3/p.620/1
		4	4
		7	7
		11	25
		12	26
		59	85
		61	87
		63	89
34	Comparison of Series	8.4/p.587/3	9.4/p.628/3
		5	5
		7	7
		11	11
		15	15
		23	23
		27	27
		35	35
35	Alternating Series	8.5/p.595/9	9.5/p.636/11
		11	13
		13	15
		41	47
		43	49
		47	53
		66	76
36	Ratio Tests	8.6/p.603/13	9.6/p.645/13
		14	14
		17	17
		25	25
		29	29
		31	31
		43	51
		46	54
37	Summary: Convergence Tests	p.601/Example 5 p.604/44	p.643/Example 5 p.646/52
		45	53
		53	61
38	Taylor Polynomials and Approximations	8.7/p.613/1	9.7/p.656/1
		3	3
		13	13
		17	17
		29	29
		30	30
		35	35
		62	68
39	Power Series	8.8/p.623/5	9.8/p.666/5
		7	7
		11	11
		13	13
		15	15
		48	64
		49	69

Lesson	Topic	section/page/exercise 7th ed	section/page/exercise 8th ed
40	Representation of Functions by Power Series	8.9/p.630/1	9.9/p.674/1
		5	5
		15	15
		21	21
41 & 42	Taylor and Maclaurin Series	8.10/p.641/3	9.10/p.685/3
		5	5
		6	6
		7	7
		19	21
		23	25
		52	54
		53	55
		59	61
43	MATLAB Project 4: Taylor	Polynomials & Approximations	
44	Review for EXAM # 3		
45 & 46	EXAM # 3		
47	Plane Curves & Parametric Equations	9.2/p.672/1	10.2/p.716/1
		2	2
		5	5
		7	7
		17	17
		33	33
		40	40
		41	41
48	Parametric Equations and Calculus	9.3/p.681/5,7,9,15,17	10.3/p.725/5,7,9,15,17
		27	29
		37	49
49 & 50	Polar Coordinates & Polar Graphs	9.4/p.691/1,3,11,13	10.4/p.736/1,3,11,13
		21	27
		23	29
		25	31
		29	35
		53	59
		55	61
		67	73
51	MATLAB Project 5: Polar Graphs		
52 & 53	Area and Arc Length in Polar Coordinates	9.5/p.700/1	10.5/p.745/5
		3	7
		7	11
		9	13
		11	15
		13	17
		17	21
		27	31
		41	45
		43	47
54,55,56	Review for FINAL		