Math 152: Engineering Calculus II
Sections 534-536 and 540-542
Spring 2016 Lecture Schedule

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Below is a list of the topics we intend to cover, along with a rough time outline. Actual schedule is subject to change without notice. Last updated March 25th, 2016.

Week	Topic	Chapters
1/18 – 1/22	Review FTC	6.4-6.5
	Integration by Substitution	7.1
1/25 – 1/29	Area Between Curves	7.1
	Average Value	7.5
	Volume of Revolution: Disks and Washers	7.2
2/1 – 2/5	Volume of Revolution: Shells	7.3
	Force and Work	7.4
2/8 – 2/12	Integration by Parts	8.1
	Trigonometric Integration	8.2
2/15 – 2/19	Trigonometric Substitution	8.3
	Review for Exam 1	
2/18	**Exam 1**	
2/22 – 2/26	Partial Fractions	8.4
	Improper Integrals	8.9
2/29 – 3/4	Arc Length	9.3
	Surface Area of Revolution	9.4
	Review of Integration Topics	
3/7 – 3/11	Sequences	10.1
	Series (Day 1)	10.2
3/14 – 3/18	*Spring Break: No Class*	
3/21 – 3/25	Series (Day 2)	10.2
	Review for Exam 2	
3/24	**Exam 2**	
3/28 – 4/1	Integral and Comparison Tests	10.3
	Alternating Series	10.4
4/4 – 4/8	Absolute Convergence and the Ratio Test	10.4
	Power Series	10.5
	Representing Functions as Power Series	10.6
4/11 – 4/15	Taylor and McLauren Series	10.7
	Applications of Taylor Series	10.9
4/18 – 4/22	Review of Series Topics	
	3D Coordinates	11.1
	Vectors and Dot Product	11.2
4/25 – 4/29	Review for Exam 3	
	Cross Product	11.3
4/24	**Exam 3**	
5/5	**Final Exam** (Sections 540-542)	
5/10	**Final Exam** (Sections 534-536)	