

MAT182 Calculus II
Course Schedule & Partial Homework
Siena Heights University
Fall 2016

- Indicates the week is missing one or more days

This is a list of recommended problems, by section. Contents will change/grow as the semester progresses, so check this page frequently. Attempt the problems as we complete the section listed, ask questions in class or in my office. You are not required to do every problem, but should do enough so that you're comfortable with the entire section.

Week	Section	Topic	Problems
1	5.4	Integration By Substitution	
	6.1	Area Between Curves	
2	6.2	Volume	
	6.3	Volume By Shells	
3	6.5	Average Value	
		Exam Ch 5-6	
	7.1	Integration By Parts	
4	7.2	Trig Integrals	
	7.3	Trig Substitution	
5	7.4	Partial Fractions	
	7.5	Arbitrary Integrals	
6	7.8	Improper Integrals	
		Exam Ch 7	
7	8.1	Arc Length	
	8.2	Surface Area	
8	8.3	Applications To Physics And Engineering	
	8.4	Applications To Economics and Biology	
	10.1	Parametric Equations	
9	10.2	Calculus With Parametric Equations	
	10.3	Polar Coordinates	
	10.4	Arc Length And Surface Area	
10		Exam Ch 8, 10	
	11.1	Sequences	
	11.2	Infinite Series	
11	11.3	Integral Test	
	11.4	Comparison Tests	
	11.5	Alternating Series	
12	11.6	Absolute Convergence; Ratio Test	
	11.7	Arbitrary Series	
	11.8	Power Series	
13	11.9	Functions as Power Series	
	11.10	Taylor And MacLaurin Series	

14		Exam Ch 11	
	9.1	Modelling With Differential Equations	
	9.2	Direction Fields and Euler's Methods	
15	9.3	Separable Equations	
	9.4	Population models	