

Math 163A Introduction to Calculus I, Section A02

Ohio University, Fall Quarter 2006

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Office Hours: 11:10am-noon Mon, Tues, Thurs, Fri

Course Description: A survey of basic concepts of calculus for students who want an introduction to calculus, but who do not need the depth of 263A-B-C. Note: Students cannot earn credit for both 163A and either of 263A or 266A. **Prerequisites:** Math 113 or Placement level 2 or higher.

Text: Calculus with Applications (Brief Version), 8th Edition, by Lial, Greenwell, and Ritchey published by Addison Wesley, 2005; ISBN: 0-321-22829-4

Online Resources:

- Web Page: <http://www.math.ohiou.edu/~barsamian/2006f163A/2006f163A.html>
- Blackboard site: Used for posting handouts, solutions, and grades.

Calculators: Calculators will not be allowed on exams.

Grading: Your course letter grade will be determined by the number of points that you accumulate on Homework, Midterm Exams, and the Final Exam. The table below shows the number of points possible. Note that no scores are dropped.

Homework (7 assignments, 20 points each):	140 points
Midterm Exams (3 exams, 200 points each):	600 points
Final Exam:	260 points
Total Points Possible for the Quarter:	1000 points

Your course letter grade will be computed by assessing your total score using the percentage scale shown in the table below. There will be no curve. An estimate of your current grade will be available on the Blackboard site throughout the quarter.

Total Score	Percentage Score	Letter Grade
900 - 1000	90% - 100%	A
850 - 899	85% - 89.9%	A-
800 - 849	80% - 84.9%	B+
750 - 799	75% - 79.9%	B
700 - 749	70% - 74.9%	B -
650 - 699	65% - 69.9%	C+
600 - 649	60% - 64.9%	C
550 - 599	55% - 59.9%	C -
400 - 549	40% - 54.9%	D
0 - 399	0% - 39.9%	F

Homework: In Math 163A Section 02, homework assignments will be graded. You may work together on homework, but the words that you write should be your own. Late homework is not accepted.

Fall 2006 Math 163A Section A02 Syllabus

Date	Class topics	Homework Due
Tue 5 Sep	1.1 Slopes and Equations of Lines	
Thu 7 Sep	1.2 Linear Functions and Applications	
Fri 8 Sep	2.1 Properties of Functions	Homework 1
Mon 11 Sep	2.2 Quadratic Functions; Translation and Reflection	
Tue 12 Sep	2.3 Polynomial and Rational Functions	
Thu 14 Sep	Sign Charts	
Fri 15 Sep	2.3 Polynomial and Rational Functions	Homework 2
Mon 18 Sep	3.1 Limits	
Tue 19 Sep	3.2 Continuity	
Thu 21 Sep	Leftovers and Review	
Fri 22 Sep	Exam 1	
Mon 25 Sep	3.3 Rates of Change	
Tue 26 Sep	3.4 Definition of the Derivative	
Thu 28 Sep	3.4 Definition of the Derivative	
Fri 29 Sep	3.5 Graphical Differentiation	Homework 3
Mon 2 Oct	4.1 Techniques for Finding Derivatives	
Tue 3 Oct	4.2 Derivatives of Products and Quotients	
Thu 5 Oct	4.3 The Chain Rule	
Fri 6 Oct	4.3 The Chain Rule	Homework 4
Mon 9 Oct	Leftovers and Review	(last drop day)
Tue 10 Oct	Exam 2	
Thu 12 Oct	5.1 Increasing and Decreasing Functions	
Fri 13 Oct	5.2 Relative Extrema	
Mon 16 Oct	5.2 Relative Extrema	
Tue 17 Oct	5.3 Higher Derivatives and Concavity	
Thu 19 Oct	5.4 Curve Sketching	
Fri 20 Oct	5.4 Curve Sketching	Homework 5
Mon 23 Oct	6.1 Absolute Extrema	
Tue 24 Oct	6.1 Absolute Extrema	
Thu 26 Oct	6.2 Applications of Extrema	
Fri 27 Oct	6.2 Applications of Extrema	Homework 6
Mon 30 Oct	Leftovers and Review	
Tue 31 Oct	Exam 3	
Thu 2 Nov	9.1 Functions of Several Variables	
Fri 3 Nov	9.2 Partial Derivatives	
Mon 6 Nov	9.2 Partial Derivatives	
Tue 7 Nov	9.3 Maxima and Minima	
Thu 9 Nov	9.3 Maxima and Minima	Homework 7
Fri 10 Nov	Holiday: no class	
Mon 13 Nov	9.4 Lagrange Multipliers	
Tue 14 Nov	Leftovers and Review	
Sat 18 Nov	Cumulative Final Exam at 8:00am in Morton 226	

Fall 2006 Math 163A Section A02 Homework Assignments

Section	Assigned Problems (turn in)	Suggested Problems (do not turn in)	
H1	1.1	4,14,30,48	1,3,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,40,47,49,51,53,57,59
	1.2	8,12,14,16	1,2,3,4,9,11,13,15,17
	2.1	28,44,62	1,3,5,7,8,11,13,15,17,21,23,25,29,31,35,37,41,45,47,49,53,55,57,65
H2	2.2	4,8,20,26,30,48	1,2,3,7,9,11,21,24,25,27,33,37,41,49
	SignCharts	SignCharts 2,6	SignCharts 1,3,4,5
	2.3	1,6,10,24	2,3,7,9,11,13,15,17,21,25,27,31,33,39
	3.1	none	1,3,5,7,9,10,11,12,17,25,29,31,39,41,43,49,55,56
	3.2	none	1,3,5,7,9,11,13,19,23,25,29,30
H3	3.3	8,10,28	1,3,5,7,11,13,15,21,27
	3.4	2,4,14,22,48	1,3,5,9,10,11,15,17,19,33
	3.5	6,8	5,7,9,11,13
H4	4.1	8,25,31,40,46,54	3,5,13,19,27,29,45,53
	4.2	8,12,28,30,31	1,21,23,27
	4.3	20,28,36,45,54a	1,3,5,7,13,19,27,37
H5	5.1	8,20,29,35	5,13,15,19,21
	5.2	8,12,21,30	5,11,29
	5.3	10,30,38,50	3,5,31,32,35
	5.4	6,12,13,36	9,11,19,35,37
H6	6.1	2,12,23,26,36	3,11,15,17,27
	6.2	4,8,12,16,22,26	1,9,23,27
H7	9.1	8,14,22,24,28	3,21,23,25,26,27
	9.2	18,22,33,48	1,3,5,11,25,35,51
	9.3	13,22,36	7,9,11,15,21,23,24,25,26,35
	9.4	none	1,3,5,7,9,19