

Math 263B Analytic Geometry and Calculus II, Sections A01 and A02

Ohio University, Fall Quarter 2006

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

Course Description: The second in a four quarter calculus sequence. Topics include antiderivatives, integration, parametric representations of curves, polar coordinates, modeling with differential equations, and exponential growth and decay.

Prerequisites: a grade of C or better in Math 263A

Text: Calculus, Early Transcendentals, 5th Edition, by James Stewart

Published by Brooks/Cole, 2003, ISBN 0-534-39321-7

Online Resources:

- Math 263 Web page: <http://www.math.ohiou.edu/courses/math263/index.php>
- Section 01 and 02 Web Page: <http://www.math.ohiou.edu/~barsamian/2006f263B/2006f263B.html>
- Section 01 and 02 Blackboard site: Used for posting handouts, solutions, and grades.

Calculators and Computers: In Math 263B Sections 01 and 02, calculators will not be allowed on exams. Most of the homework assignments include a portion to be done using the computer program MatLab.

Grading: In Math 263B Sections 01 and 02, 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, 170 points each):	510 points
Final Exam:	350 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 263B Sections 01 and 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 263B Sections A01 and A02 Syllabus

Date	Class topics	Homework Due
Tue 5 Sep	4.10 Antiderivatives	
Thu 7 Sep	4.10 Antiderivatives	
Fri 8 Sep	5.1 Areas and Distances	Homework 1
Mon 11 Sep	5.2 The Definite Integral	
Tue 12 Sep	5.2 The Definite Integral	
Thu 14 Sep	5.3 The Fundamental Theorem of Calculus	
Fri 15 Sep	5.3 The Fundamental Theorem of Calculus	Homework 2
Mon 18 Sep	5.4 Indefinite Integrals and the Net Change Theorem	
Tue 19 Sep	5.5 The Substitution Rule	
Thu 21 Sep	Leftovers and Review	
Fri 22 Sep	Exam 1	
Mon 25 Sep	6.1 Areas between Curves	
Tue 26 Sep	6.2 Volumes	
Thu 28 Sep	6.2 Volumes	
Fri 29 Sep	6.4 Work	Homework 3
Mon 2 Oct	6.5 Average Value of a Function	
Tue 3 Oct	7.1 Integration by Parts	
Thu 5 Oct	7.1 Integration by Parts	
Fri 6 Oct	7.2 Trigonometric Integrals	Homework 4
Mon 9 Oct	7.4 Integration of Rational Functions	(last drop day)
Tue 10 Oct	7.4 Integration of Rational Functions	
Thu 12 Oct	7.7 Approximate Integration	
Fri 13 Oct	4.4 Indeterminate Forms and L'Hospital's Rule	Homework 5
Mon 16 Oct	7.8 Improper Integrals	
Tue 17 Oct	7.8 Improper Integrals	
Thu 19 Oct	Leftovers and Review	
Fri 20 Oct	Exam 2	
Mon 23 Oct	8.1 Arc Length	
Tue 24 Oct	10.1 Parametric Curves	
Thu 26 Oct	10.2 Calculus with Parametric Curves	
Fri 27 Oct	10.2 Calculus with Parametric Curves	Homework 6
Mon 30 Oct	10.3 Polar Coordinates	
Tue 31 Oct	9.1 Modeling with Differential Equations	
Thu 2 Nov	9.1 Modeling with Differential Equations	
Fri 3 Nov	9.4 Exponential Growth and Decay	Homework 7
Mon 6 Nov	9.4 Exponential Growth and Decay	
Tue 7 Nov	Leftovers and Review	
Thu 9 Nov	Exam 3	
Fri 10 Nov	Holiday: no class	
Mon 13 Nov	Course Review	
Tue 14 Nov	Course Review	
Fri 17 Nov	Cumulative Final Exam at 7:00pm (location will be announced later)	

Fall 2006 Math 263B Sections A01 and A02 Homework Assignments

Remember that the MatLab assignments are posted on the Math 263 Web page.

	Sections	Assigned Problems (turn in)	Suggested problems (do not turn in)
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H1	4.10	11,33,45,47,61,74	5,9,23,29,37,59
	MatLab 1	Questions from MatLab 1	none
	5.1	1,3	5,11,13

H2	5.2	4,6,29,34,36,48,56	1,3,5,11,39,43,45,52,67
	MatLab 2	Questions from MatLab 2	none
	5.3	2,7,25,27,31,37,41	3,11,19,21,23,29,33,35,39,49,50,51,54
	5.4	none	5,8,11,14,17,20,23,26,29,32,35,38,45,47,51,53,60,61
	5.5	none	5,7,12,14,19,23,25,27,28,31,33,40,53,59,62,65

H3	6.1	1,3,9,15,21,29,40	5,7,11,13,17,19,23,39
	6.2	3,5,11,25,33,47	1,7,9,13,15,17,19,35,45,49,51

H4	6.4	3,9,15,19	1,5,7,13,17,29
	6.5	3,5,18,19	1,7,9,15,20,22
	7.1	3,13,15,51,59	1,5,7,9,11,17,19,21,23,25,27,29,31,33,41,66

H5	7.2	3,7,11	1,5,9
	7.4	5,7,9,17,53	1,3,11,13,15,63
	7.7	2,5,19,21	1,3,13,17
	MatLab 3	Questions from MatLab 3	none
	4.4	none	1,4,5,9,11,13,17,21,27,35,39,47,51,55,61
	7.8	none	1,2,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,49
	MatLab 4	none	Questions from MatLab 4

H6	8.1	5,13,19	7,9,11,17,33,35
	MatLab 5	Questions from MatLab 5	none
	10.1	7,19,24,26,28	1,3,5,9,11,13,15,21,23,25,27
	10.2	1,7,15,17	3,5,9,11,13,19,37,39,41

H7	10.3	3,5,11,13,31,37,45	1,7,9,15,17,19,21,23,25,29,33,35,39,41,43
	MatLab 6	Questions from MatLab 6	none
	9.1	1,5,7,9,11	none
	9.4	1,9	5,7,13