

## Math 163A Intro to Calculus Spring 2009 Sections A02 (04693) and A04 (04695) Course Information

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**Office Hours:** Monday - Thursday 10:10am-11:00am

**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.

**Prerequisites:** Math 113 or Placement level 2 or higher.

**Note:** Students cannot earn credit for both 163A and either of 263A or 266A.

**Text:** Calculus for Business, Economics, Life Sciences, and Social Sciences, 11th Edition, by Barnett, Ziegler, and Byleen, published by Pearson/Prentice Hall, 2007, ISBN 0-13-232818-6

**Calculators:** Will be used in class and on homework but will not be allowed on exams.

### Resources Online:

- Main Math 163 Web page: <http://www.math.ohiou.edu/courses/math163/index.php>
- Web Page for Sections A02 & A04: <http://www.math.ohiou.edu/~barsamian/2009s163A/2009s163A.html>

### Resources on Campus:

- The Academic Advancement Center's Math Center has drop-in help tutors, online help, and a phone hotline. Find out more about the Math Center on the website: <http://cscwww.cats.ohiou.edu/aac/math/>
- Supplemental Instruction (SI) provides free, out-of-class study sessions. Find a schedule of SI sessions at the website: <http://www.ohiou.edu/AAC/supins/>

**Special Needs:** If you have physical, psychiatric, or learning disabilities that require accommodations, please let me know as soon as possible so that your needs may be appropriately met.

### Grading:

In Math 163A Sections A02 and A04, you will accumulate points as shown in the table at right.

Written Homework (7 assignments, 25 points each):	175	points
Midterm Exam #1:	125	points
Midterm Exam #2:	200	points
Midterm Exam #3:	200	points
Final Exam:	300	points
Total Points Possible for the Quarter:	1000	points

Your course letter grade will be computed from your total score using the percentage scale shown in this table.

(The Learning Objectives for the course can be found on the main Math 163A web page.)

Total Score	Percentage	Grade	Interpretation
900 - 1000	90% - 100%	A	You mastered all concepts, with no significant gaps
850 - 899	85% - 89.9%	A-	
800 - 849	80% - 84.9%	B+	You mastered all essential concepts and many advanced concepts, but have some significant gaps.
750 - 799	75% - 79.9%	B	
700 - 749	70% - 74.9%	B-	You mastered most essential concepts and some advanced concepts, but have many significant gaps.
650 - 699	65% - 69.9%	C+	
600 - 649	60% - 64.9%	C	
550 - 599	55% - 59.9%	C-	You mastered some essential concepts.
400 - 549	40% - 54.9%	D	
0 - 399	0% - 39.9%	F	

**Attendance:** In Math 163A Sections A02 and A04, attendance is mandatory and is recorded. Attendance is not part of your grade. However, data from previous quarters shows that there is a very strong correlation between attendance and performance in this course. If you do miss a class, it is your responsibility to copy a classmate's notes and study them. I will not use my office hours to teach topics that were discussed in class to students that were not in class.

Date	Class topics
Mon Mar 30	2-1 Functions
Tue Mar 31	2-2 Graphs and Transformations
Thu Apr 2	2-3 Quadratic Functions
Fri Apr 3	2-3 Business Terminology; Polynomial Functions (Homework 1 Due)
Mon Apr 6	2-4 Exponential Functions
Tue Apr 7	2-5 Logarithmic Functions
Thu Apr 9	2-5 Applications of Exponential and Logarithmic Functions
Fri Apr 10	Exam 1 on Chapters 1 and 2
Mon Apr 13	3-1 Introduction to Limits: Graphical Approach (do Class Drill 1)
Tue Apr 14	3-1 Introduction to Limits: Algebraic Approach
Thu Apr 16	3-2 Continuity
Fri Apr 17	3-3 Infinite Limits (Homework 2 Due)
Mon Apr 20	3-3 Limits at Infinity (do Class Drill 2)
Tue Apr 21	3-4 The Derivative (do Class Drill 3)
Thu Apr 23	3-4 The Derivative (do Class Drill 4)
Fri Apr 24	3-5 Basic Differentiation Properties (Homework 3 Due)
Mon Apr 27	3-5 Basic Differentiation Properties
Tue Apr 28	3-6 Differentials
Thu Apr 30	3-7 Marginal Analysis in Business and Economics
Fri May 1	Exam 2 on Chapter 3
Mon May 4	4-1 The Constant $e$ and Continuous Compound Interest
Tue May 5	4-2 Derivatives of Exponential Functions
Thu May 7	4-2 Derivatives of Logarithmic Functions
Fri May 8	4-3 Derivatives of Products and Quotients (Homework 4 Due) (do Class Drill 5)
Mon May 11	4-4 The Chain Rule
Tue May 12	4-4 The Chain Rule (do Class Drill 6)
Thu May 14	4-5 Implicit Differentiation
Fri May 15	4-6 Related Rates (Homework 5 Due)
Mon May 18	4-6 Related Rates
Tue May 19	Exam 3 on Chapter 4
Thu May 21	5-1 First Derivative and Graphs
Fri May 22	5-2 Second Derivative and Graphs (do Class Drill 7)
Mon May 25	Holiday: No Class
Tue May 26	5-4 Curve Sketching and Graphs (do Class Drill 8)
Thu May 28	5-4 Curve Sketching and Graphs
Fri May 29	5-5 Absolute Maxima and Minima (do Class Drill 9) (Homework 6 Due)
Mon Jun 1	5-5 Absolute Maxima and Minima
Tue Jun 2	5-6 Optimization
Thu Jun 4	5-6 Optimization (Homework 7 Due)
Fri Jun 5	Review and Course Evaluations
Tues Jun 9	Section A02 has Cumulative Final Exam from 8:00am - 10:00am in Morton 237
Wed Jun 10	Section A04 has Cumulative Final Exam from 8:00am - 10:00am in Morton 218