

Ohio University Spring 2007 Math 163A Section A06 Course Information

Instructor: Mark Barsamian

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Office Hours: 9:10am-10:00am Mon, Tues, Thurs; 9:10-11:00am Wed

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

Calculators: will not be allowed on exams.

Online Resources:

- Instructor web page: <http://www.math.ohiou.edu/~barsamian>
- Math 163A Web page: <http://www.math.ohiou.edu/courses/math163/index.php>
- Section A06 Web Page: <http://www.math.ohiou.edu/~barsamian/2007s163A/2007s163A.html>
- Section A06 Blackboard site: <https://blackboard.ohiou.edu/>
- MathXL web site: <http://www.mathxl.com/login.htm>
- Instructions for MathXL: <http://www.math.ohiou.edu/~barsamian/2007s163A/instructions.pdf>

Learning Resources:

- The Academic Advancement Center's Math Center <http://www.ohiou.edu/aac/math> has drop-in help, tutors, online help, and a telephone hotline.
- Supplemental Instruction: SI "provides free, out-of-class study sessions led by an Ohio University undergraduate student who has already taken the course. Used throughout the U.S. and the world, the SI program has proven highly successful in increasing student achievement and retention." Check with the [academic advancement center](#) for more information and the [schedule](#).

Grading: In Math 163A Section A06, you will accumulate points as follows.

| | |
|---|-------------|
| Online Homework (20 assignments, 10 points each): | 200 points |
| Written Homework (6 assignments, 10 points each): | 60 points |
| Attendance (40 days, 1 point each): | 40 points |
| Midterm Exams (3 exams, 150 points each): | 450 points |
| Final Exam: | 250 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 below.

| 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+ | |
| 750 - 799 | 75% - 79.9% | B | You mastered all essential concepts and many advanced concepts, but have some significant gaps. |
| 700 - 749 | 70% - 74.9% | B- | |
| 650 - 699 | 65% - 69.9% | C+ | You mastered most essential concepts and some advanced concepts, but have many significant gaps. |
| 600 - 649 | 60% - 64.9% | C | |
| 550 - 599 | 55% - 59.9% | C- | |
| 400 - 549 | 40% - 54.9% | D | You mastered some essential concepts |
| 0 - 399 | 0% - 39.9% | F | You did not master essential concepts. |

Attendance: Attendance is taken every day using student ID card readers located by the two doors at the back of the lecture hall. It is your responsibility to bring your ID to class and to swipe it through the reader either on your way in or on your way out.

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

Syllabus:

| Date | Class topics |
|------------|---|
| Mon 26 Mar | 1.1 Slopes and Equations of Lines |
| Tue 27 Mar | 1.2 Linear Functions and Applications |
| Thu 29 Mar | 2.1 Properties of Functions |
| Fri 30 Mar | 2.2 Quadratic Functions; Translation and Reflection |
| Mon 2 Apr | Sign Charts |
| Tue 3 Apr | 2.3 Polynomial and Rational Functions |
| Thu 5 Apr | 2.3 Polynomial and Rational Functions |
| Fri 6 Apr | Exam 1 |
| Mon 9 Apr | 3.1 Limits |
| Tue 10 Apr | 3.1 Limits |
| Thu 12 Apr | 3.2 Continuity |
| Fri 13 Apr | 3.3 Rates of Change |
| Mon 16 Apr | 3.3 Rates of Change |
| Tue 17 Apr | 3.4 Definition of the Derivative |
| Thu 19 Apr | 3.4 Definition of the Derivative |
| Fri 20 Apr | 3.5 Graphical Differentiation |
| Mon 23 Apr | 3.5 Graphical Differentiation |
| Tue 24 Apr | Exam 2 |
| Thu 26 Apr | 4.1 Techniques for Finding Derivatives |
| Fri 27 Apr | 4.2 Derivatives of Products and Quotients |
| Mon 30 Apr | 4.2 Derivatives of Products and Quotients |
| Tue 1 May | 4.3 The Chain Rule |
| Thu 3 May | 4.3 The Chain Rule |
| Fri 4 May | 5.1 Increasing and Decreasing Functions |
| Mon 7 May | 5.2 Relative Extrema |
| Tue 8 May | 5.2 Relative Extrema |
| Thu 10 May | 5.3 Higher Derivatives and Concavity |
| Fri 11 May | 5.4 Curve Sketching |
| Mon 14 May | 5.4 Curve Sketching |
| Tue 15 May | Exam 3 |
| Thu 17 May | 6.1 Absolute Extrema |
| Fri 18 May | 6.1 Absolute Extrema |
| Mon 21 May | 6.2 Applications of Extrema |
| Tue 22 May | 6.2 Applications of Extrema |
| Thu 24 May | 9.1 Functions of Several Variables |
| Fri 25 May | 9.2 Partial Derivatives |
| Mon 28 May | Holiday: No class |
| Tue 29 May | 9.2 Partial Derivatives |
| Thu 31 May | 9.3 Maxima and Minima |
| Fri 1 Jun | 9.3 Maxima and Minima |
| Tue Jun 5 | Cumulative 163A Final Exam 8:00am – 10:00am in Morton 237 |