

# Math 266A Calculus with Applications to Biology I, Section 01

Ohio University, Winter Quarter 2006

**Instructor:** Mark Barsamian, <barsamia@ohio.edu>

**Office:** Morton Hall Room 538, (740)593-1273

**Office Hours:** 2:10-3:00pm Mon, Tues, Thurs, Fri

**Course Description:** MATH 266 is a calculus sequence that has been specifically designed to meet the needs of prospective life science majors. The mathematical concepts covered in these courses will be developed in the context of biological questions, and numerous exercises will demonstrate further applications of calculus in the life sciences. **Equivalences and Prerequisites:** The course has two sections, MATH 266A and B, that roughly correspond to MATH 263A and MATH 263B. The prerequisite for MATH 266A is MATH 115 or placement level 3. Students cannot earn credit for both 266A and either of 163A or 263A. Students who successfully complete MATH 266A have the option to take either MATH 266B or MATH 263B, but MATH 263A is not considered a sufficient prerequisite for MATH 266B. Students who successfully complete MATH 266B and who wish to learn more calculus can enroll in MATH 263C.

**Text:** Calculus for Biology and Medicine 2<sup>nd</sup> Edition, by Claudia Neuhauser; 2004; ISBN: 0-13-045516-4

## Online Resources:

- course web page: <http://www.math.ohiou.edu/~barsamian/2006w266A/2006w266A.html>
- course *Blackboard* site: Used for posting handouts and grades. The gradebook will be updated weekly.

**Homework:** Homework assignments will be graded. You may work together on homework, but the words that you write should be your own. Late homework will not be accepted.

**Calculators and Computers:** Calculators will not be used in this course, and will not be allowed on exams. Computers will be used. Each of the homework assignments includes a portion to be done using MATLAB.

## Grading:

Homework (best 5 of 6 homeworks, 20 points each):	100 points
Midterm Exams (best 3 of 4 exams, 200 points each):	600 points
Final Exam:	300 points
Total Points Possible for the Quarter:	1000 points

There will be no curve. The table below shows the scale that is used for all grading, along with the actual point values to which it corresponds. Current grades will be available on the *Blackboard* site throughout the quarter.

Letter	Percent	Homework	Midterm	Final Exam	Course Total
A	90% - 100%	18,19,20	180 - 200	270 - 300	900 - 1000
A-	85% - 89%	17	170 - 179	255 - 269	850 - 899
B+	80% - 84%	16	160 - 169	240 - 254	800 - 849
B	75% - 79%	15	150 - 159	225 - 239	750 - 799
B -	70% - 74%	14	140 - 149	210 - 224	700 - 749
C+	65% - 69%	13	130 - 139	195 - 209	650 - 699
C	60% - 64%	12	120 - 129	180 - 194	600 - 649
C -	55% - 59%	11	110 - 119	165 - 179	550 - 599
D	40% - 54%	8,9,10	80 - 109	120 - 164	400 - 549
F	0% - 39%	0-7	0 - 79	0 - 119	0 - 399