

## Ohio University Fall 2007 Math 266A Section A01 Course Information

**Instructor:** Mark Barsamian  
**Office:** Morton Hall Room 538  
**Office Hours:** Monday 10:10am-11:00am  
Tuesday 10:10am-11:00am  
Wednesday 9:10am-12:00pm  
Thursday 10:10am-11:00am  
Friday 10:10am-11:00am

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**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/2007f266A/2007f266A.html>
- course *Blackboard* site: Used for posting handouts and grades. The gradebook will be updated weekly.

**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:** In Math 266A Section A01, you will accumulate points as follows.

Written 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 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+	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	

**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.

**Attendance:** Attendance is mandatory, but is not recorded and is not part of your grade. If you miss a class, it is your responsibility to copy a classmate's notes and catch up on what was covered.

**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.

**Fall 2007 Math 266A Section A01 Syllabus and Tentative Schedule**

Date	Class topics	Homework/Exam
Tue 4 Sep	1.1	
Thu 6 Sep	1.2	
Fri 7 Sep	1.2	Homework 1
Mon 10 Sep	1.3	
Tue 11 Sep	1.3	
Thu 13 Sep	Review	
Fri 14 Sep	Exam 1	Exam 1
Mon 17 Sep	2.1	
Tue 18 Sep	2.2	
Thu 20 Sep	2.2	
Fri 21 Sep	2.3	Homework 2
Mon 24 Sep	3.1	
Tue 25 Sep	3.2	
Thu 27 Sep	3.1 leftovers and 3.3	
Fri 28 Sep	3.3	Homework 3
Mon 1 Oct	3.4	
Tue 2 Oct	3.5	
Thu 4 Oct	Review	
Fri 5 Oct	Exam 2	Exam 2
Mon 8 Oct	4.1	
Tue 9 Oct	4.1	
Thu 11 Oct	4.2	
Fri 12 Oct	4.3	Homework 4
Mon 15 Oct	4.4	
Tue 16 Oct	4.5	
Thu 18 Oct	4.6	
Fri 19 Oct	4.7	Homework 5
Mon 22 Oct	4.7	
Tue 23 Oct	4.8	
Thu 25 Oct	Review	
Fri 26 Oct	Exam 3	Exam 3
Mon 29 Oct	5.1	
Tue 30 Oct	5.2	
Thu 1 Nov	5.3	
Fri 2 Nov	5.3	Homework 6
Mon 5 Nov	5.4	
Tue 6 Nov	5.5	
Thu 8 Nov	5.6	
Fri 9 Nov	5.6	Homework 7
Mon 12 Nov	Holiday: No Class	
Tue 13 Nov	Review	
Tue 20 Nov	Cumulative Final Exam at 10:10 a.m. in Morton 326	

### Fall 2007 Math 266A Section A01 Homework Assignments

	Sections	Assigned Problems (turn in)	Suggested problems (do not turn in)
H1	1.1	34, 52, 62, 76, 82	5, 15, 17, 27, 39, 47, 48, 49, 67, 71, 77, 79, 81, 83
	1.2	25, 42, 58	12, 16, 26, 37, 38, 51, 57, 65, 70, 74, 77, 79, 81, 87, 103
	1.3	none	5, 9, 13, 17, 19, 25, 29, 31, 43, 47, 55, 65, 68, 71, 77, 93, 95
	MATLAB 1	MATLAB 1 problems	
H2	2.1	2, 24, 56, 70	11, 15, 31, 33, 37, 43, 49, 52, 61
	2.2	32, 96	6, 21, 24, 37, 46, 74, 75, 77, 87, 97, 105
	2.3	none	3, 11, 15, 21, 27, 39, 40, 41, 42, 47, 51, 55, 57
	MATLAB 2	MATLAB 2 problems	
H3	3.1	2, 20, 26, 38, 48	1, 5, 15, 17, 19, 21, 29, 33, 37, 45, 49
	3.2	8, 12, 22, 45	7, 11, 18, 19, 25, 41
	3.3	6, 12, 18, 28, 30d	5, 9, 15, 17, 19, 25
	3.4	none	4, 6, 7, 11, 12, 14
	3.5	none	2, 5, 6
	MATLAB 3	MATLAB 3 problems	
H4	4.1	8, 14, 21, 30, 32	3, 9, 10, 11, 12, 20, 29, 36, 39, 41, 58
	4.2	22, 42, 68	7, 27, 28, 34, 74
	MATLAB 4	MATLAB 4 problems	
H5	4.3	8, 66, 71	22, 32, 76
	4.4	8, 24, 66, 86	8, 17, 47, 55, 67, 73, 82, 83
	4.5	10, 32	3, 59, 63
	4.6	2, 18, 34	2, 5, 37, 53, 59, 63, 69, 71
	4.7	none	5, 17, 18, 27, 28, 31, 41, 43, 47, 63, 67, 73
	4.8	none	5, 9, 21, 29, 30, 31, 41, 43
	MATLAB 5	MATLAB 5 problems	
H6	5.1	24, 40, 49	21, 28, 35, 45
	5.2	6, 14, 20, 30	35, 41
	5.3	12, 22, 28, 36	4, 5, 13, 17, 21, 25, 26, 27, 35, 41
	MATLAB 6	MATLAB 6 problems	
H7	5.4	4, 22	5, 15, 19
	5.5	4, 22, 54	11, 12, 21, 23, 24, 55
	5.6	10, 16	19, 17
	MATLAB 7	MATLAB 7 problems	