

**Syllabus for MA 132: Calculus for Life Sciences  
Spring 2008**

This course is a one semester course on the subject of Calculus, following the material covered by MA 123. We will study *integral calculus* and will discuss some of its applications to the life sciences as well as an introduction to *biological models* and their associated *differential equations* and *probability*.

**Instructor:** Dibyajyoti Deb (I go by Deb), 706 POT, ddeb@ms.uky.edu

**Course Webpage:** <http://www.math.uky.edu/~ddeb> (Click on Teaching)

**Phone:** 257-6805

**Office Hours:** M - 1pm-2pm (Office), W - 11am-12pm(Office), 1pm-2pm(Mathskellar)

**Text:** Claudia Neuhauser, *Calculus for Biology and Medicine, 2nd Ed.*

**Homework Assignment:** Homework will be assigned after every class on the course webpage, and will be collected & graded once a week. Both odd and even numbered problems will be assigned, you are encouraged to do all the problems but you should submit only the **even** numbered problems for your assignments. There is a total of 13 homeworks, out of which the best 10 will be counted towards your grade.

Homework assignments will be collected every **friday** starting 18th Jan 2008.

**Grading:** Course grades will be determined using

- Homework - 20%
- Exam 1 + Exam 2 + Exam 3 + Final exam - 80%

and the following scale:  $A = 90 - 100$ ,  $B = 80 - 89$ ,  $C = 70 - 79$ ,  $D = 60 - 69$ , etc.

**Various Policies:**

- Except in cases of documented emergencies, there will be **no makeups** of exams; similarly, homeworks will **not** be accepted late.
- You are responsible for information conveyed in class (even if you are absent).
- The Final Exam is cumulative and will cover everything that has been taught in the course (unless otherwise announced).

**Important Dates:**

- No classes on January 21 (MLK Day), March 10-15 (Spring Break).

Day	Date	Sections	Comments
Wed	9th Jan	1.1	
Fri	11th Jan	1.1 - 1.2	
Mon	14th Jan	1.2 - 1.3	
Wed	16th Jan	1.3	
Fri	18th Jan	2.1.1, 2.3.1	HW 1 due date
Mon	21st Jan		ACADEMIC HOLIDAY
Wed	23rd Jan	4.1	
Fri	25th Jan	4.2	HW 2 due date
Mon	28th Jan	4.3	
Wed	30th Jan	4.4.1, 4.4.2	
Fri	1st Feb		REVIEW, HW 3 due date
Mon	4th Feb		EXAM 1
Wed	6th Feb	4.4.3, 4.4.4	
Fri	8th Feb	4.6, 4.7	HW 4 due date
Mon	11th Feb	6.1.1, 6.1.2	
Wed	13th Feb	6.1.2, 6.1.3	
Fri	15th Feb	6.2.1, 6.2.2	HW 5 due date
Mon	18th Feb	6.2.2, 6.2.3	
Wed	20th Feb	6.3.1, 6.3.2	
Fri	22nd Feb	6.3.3, 6.3.4	HW 6 due date
Mon	25th Feb	6.3.5	
Wed	27th Feb		REVIEW
Fri	29th Feb		EXAM 2
Mon	3rd Mar	7.1.1	
Wed	5th Mar	7.1.2	
Fri	7th Mar	7.2.1	HW 7 due date
Mon	10th Mar		SPRING BREAK
Wed	12th Mar		SPRING BREAK
Fri	14th Mar		SPRING BREAK
Mon	17th Mar	7.3.1	
Wed	19th Mar	8.1.1	
Fri	21st Mar	8.1.2	HW 8 due date
Mon	24th Mar	8.1.3	
Wed	26th Mar	8.2.1	
Fri	28th Mar	8.2.2	HW 9 due date
Mon	31st Mar	8.2.3	
Wed	2nd Apr	8.2.4	
Fri	4th Apr		REVIEW, HW 10 due date
Mon	7th Apr		EXAM 3
Wed	9th Apr	12.1.1	
Fri	11th Apr	12.1.2	HW 11 due date
Mon	14th Apr	12.1.3	
Wed	16th Apr	12.1.4	
Fri	18th Apr	12.2.1	HW 12 due date
Mon	21st Apr	12.2.2	
Wed	23rd Apr		REVIEW
Fri	25th Apr		REVIEW, HW 13 due date
Mon	28th Apr		FINAL EXAM (8am - 11am)