

**Syllabus for MA 132: Calculus for Life Sciences
Spring 2009**

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/spring2009ma132.html>

Phone: 257-6805

Office Hours: M - 1pm-2pm (Office), W - 1pm-2pm (Office), F - 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 twice a week (Wednesday and Friday). 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 are a total of 22 homeworks, out of which the best 20 will be counted towards your grade.

Homework assignments will be collected every **Wednesday** starting 21st Jan 2009.

Grading: Course grades will be determined using

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

and the following scale (subject to change): $A = 90 - 100$, $B = 80 - 89$, $C = 70 - 79$, $D = 60 - 69$, 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 19 (MLK Day), March 16-20 (Spring Break).

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