

MAT 286  
SPRING 2012 (TTh)  
CALCULUS FOR THE LIFE  
SCIENCES II

**Course Description:** This is the second course in a two-course, terminal calculus sequence. It is designed to continue the introduction of students to the beauty and power of integral calculus. Applications to the life sciences are emphasized.

**Mathematics Requirements:** MAT 285 must be successfully completed before taking MAT 286. This course is the second course in the Quantitative Skills sequence MAT 285-286. *Note that students planning to major in a physical science, engineering, or mathematics must take the MAT 295-296-397 sequence. The MAT 285-286 sequence does not satisfy the requirements for such majors.*

**Text:** Calculus for the Life Sciences, by Greenwell, Ritchey, and Lial; Addison Wesley. The course will cover Chapters 7, 8, 11, and parts of Chapter 9 of the text.

**Calculator:** A graphing calculator is required. The TI-84 or TI-83 calculator is the recommended graphing calculator for the course. Students who already own and know how to use another equivalent calculator (e.g. TI-85 or TI-86) are free to use it. A calculator with symbolic calculus capability (such as the TI-89 or TI-92) is not allowed for exams and quizzes.

**Course Format:** The course meets two times per week (Tuesday and Thursday).

**Final Examination:** The final exam covers the entire course. Your MAT 286 final exam will take place in a two-hour block sometime in the period

8:00 AM to 2:30 PM on Monday, May 7, 2012.

The exact time and location will be announced in class around mid-term. Students must take the final examination during the appointed examination block and at the scheduled time. If you have a conflict with another final exam, you must contact your instructor at least two weeks in advance in order to have it resolved. **You must take the final examination at the announced time and place. It will not be given at any other time. In particular, be sure to be on campus Monday, May 7, 2012, from 8:00 AM to 2:30 PM. Do not make plans to leave campus before 2:30 PM, May 7, 2012.**

**Grades:** Your semester average will be based on your performance on the final exam, the three hour exams, homework, quizzes, and exam corrections. These components will be weighted as follows:

Final Exam	20%
3 Hour Tests	20% each
Quizzes, Homework, and Exam Corrections	20%

Your semester course grade will be determined from your semester average as follows:

93 – 100	A	77 – 79	C+
90 – 92	A-	73 – 76	C
87 – 89	B+	70 – 72	C-
83 – 86	B	60 – 69	D
80 – 82	B-	Below 60	F

Your instructor will establish and announce the homework and quiz policy for your section.

***There will be no make-up exams.*** If you have an excused absence for one of the exams, the relevant portion of the final exam will be used to provide a score for the missed exam.

An essential part of success in a mathematics course is to learn from one's mistakes. Part of your grade will be to submit correct solutions to problems that you missed on each exam. An exam score of at least 90 exempts you from making corrections on that particular exam. Corrections are to be submitted to your instructor within one week after the exams are returned in class. Late corrections will not be accepted.

**Students with Disabilities:** Students who need special consideration because of any sort of disability should contact their instructor as early in the semester as possible to be sure that appropriate accommodations are made.

**Course-related Problems or Questions:** Please inform your instructor of any problems you have with this course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor:

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