

**MA 23200: Calculus for the Life Sciences II**  
**Spring 2012**

**COURSE WEBPAGE:** <http://www.math.purdue.edu/ma232>

**REQUIRED TEXTBOOK:** *Calculus for the Life Sciences*, Marvin L. Bittinger, Neal Brand and John Quintanilla, 2006

**PREREQUISITE:** MA 23100 (with a grade of at least a C-)

**CALCULATOR:** A scientific calculator with a **one-line** display is required. Graphing calculators and programmable calculators cannot be used. Calculators which are capable of numerical or symbolic differentiation or integration also cannot be used. Sharing calculators on a quiz or exam is not allowed.

**HOMEWORK:** Homework will be collected daily. The two lowest homework scores will be dropped at the end of the semester. No late homework will be accepted except with your instructor's permission. Points will be deducted from unclaimed homework after two class periods (for example, if an assignment is returned on Monday, you have until the end of the class on Wednesday to pick up the homework to avoid penalties). If you are not going to be in class, ask someone to pick up the homework for you.

**QUIZZES:** Quizzes will be given frequently. The lowest quiz score will be dropped at the end of the semester. There will be no make-up quizzes. In extenuating circumstances, your instructor may choose to excuse you from a quiz. Points will be deducted from unclaimed quiz after two class periods (for example, if a quiz is returned on Monday, you have until the end of the class on Wednesday to pick up the quiz to avoid penalties). If you are not going to be in class, ask someone to pick up the quiz for you.

**EXAMS:** There will be two in-class midterm exams, one evening midterm exam, and a final exam. The two in-class midterm exams will be written and graded by your instructor. On these exams, partial credit may be awarded for substantial progress toward solving a problem. The evening midterm exam and final exam are course-wide, multiple-choice, machine-graded exams written by the course coordinator. The dates of the midterm exams are as follows:

- |            |  |
|------------|--|
| Exam 1     | in-class exam (50 min) on Friday, February 3   |
| Exam 2     | evening exam (60 min) on Tuesday, March 6, at 8:00 pm in PHYS 114<br>OR EE 129 (TBA) |
| Exam 3     | in-class exam (50 min) on Monday, April 9  |
| Final Exam | during finals week (120 min), location, date, and time to be announced               |

If you have a class or exam conflict with Exam 2 or the Final Exam, you should contact the course coordinator (Dr. Joseph Chen, [chenjk@purdue.edu](mailto:chenjk@purdue.edu)) **well before the exam**. In this case, you will be allowed to take an alternate exam without penalty. If you miss an in-class exam for any other reason,

contact your instructor immediately and explain why you missed the exam (do the same for Exam 2 and the Final Exam, but contact the course coordinator instead). You should be prepared to present documentation to your instructor that supports the reason for your absence. Depending on the situation, your instructor **may** allow you to take an alternate exam. Not knowing the right date, time, or location of an exam is not a valid reason for missing it.

**WARNING:** If there are any special circumstances that may affect your ability to successfully complete an exam (illness, family emergency, etc.) you must discuss the situation with your instructor before taking the exam, even if you must do so right before the exam. Your instructor will then be able to advise you on your options. Do not wait until after you take the exam to mention a situation to your instructor.

**GRADES:** The course grade will be based on a total of 600 points. Since the only assessments common to all students and graded identically for all students are the two course-wide exams (Exam 2 and the Final Exam), a normalization process based on the *composite score* (sum of the scores for Exam 2 and the Final Exam; maximum 300 points) is used to determine the number of each letter grade given in a section:

Homework	50
Quizzes	50
Exam 1	100
Exam 2	100
Exam 3	100
Final Exam	200
TOTAL	600

1. Each student's Exam 2 score and final exam score will be added together, to form a *composite score* (out of a maximum of 300 points).
2. The Mathematics Department will decide on the "A" range, "B" range, etc., for the composite scores.
3. Your instructor will count the number of composite scores for his/her students which are in the "A" range, "B" range, etc.
4. For course grades, your instructor will assign a number of "A"s, "B"s, etc, equal to the number of "A"s, "B"s, etc. earned as the composite scores. However, the final grades will be assigned based on *total score* (out of the 600 points as listed in the table above).
5. *Example:* Suppose that, among your instructor's students, there are 8 "A"s, 10 "B"s, etc. for the *composite scores*. Then the students with the 8 highest *total scores* will receive an "A"; the students with the next 10 highest total scores will receive a "B"; and so on.
6. If your total score is within 2 points of a grade cutoff, your grade will be raised to the higher grade. If your total score is within 3-7 points of a grade cutoff, your grade will be raised and a minus sign added (that is, you will earn an A-, B-, C-, or D-). If your total score is within 8-12 points of a grade cutoff, a plus sign will be added to your grade (that is, you will earn a B+, C+, or D+).

**ACADEMIC ADJUSTMENTS:** Students who have been certified by the Office of the Dean of Students-Adaptive Program as eligible for academic adjustments should go to MATH 242 with a copy with their certification letter and request an Information Sheet for this semester, which explains how to proceed this semester to get these adjustments made in Mathematics courses. This should be done

during the first week of classes. Only students who have been certified by the ODOS-Adaptive programs and who have requested ODOS to send their certification letter to their instructor are eligible for academic adjustments. Students who are currently undergoing an evaluation process to determine whether they are eligible for academic adjustments are encouraged to find out now what procedures they will have to follow when they are certified, by requesting the above mentioned Information Sheet from MATH 242. Large print versions of the Information Sheet are available in MATH 242 upon request.

**OFFICE HOURS:** All MA 23100 and MA 23200 instructors have office hours in their own office. These office hours are open to all students of MA 23100 and MA 23200. After the first week of classes, the office hour schedules will be posted on each instructor's door and on the course web page. You are strongly encouraged to go to office hours if you have questions. It is one of the best ways to get individual help.

**CAMPUS EMERGENCY PROCEDURE:** In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Announcements regarding campus emergencies will be sent via course-wide emails and posted on the course web page ([www.math.purdue.edu/ma232](http://www.math.purdue.edu/ma232)).

**ACADEMIC DISHONESTY:** The Mathematics Department will not tolerate academic dishonesty of any sort. If academic dishonesty occurs, then grade penalties will be imposed, possibly to the extent of an "F" in the course. Additionally, all cases of academic dishonesty will be reported to the Office of the Dean of Students for disciplinary action (which may include probation, suspension, or expulsion).

**SECTION CHANGES AND DROPS:** During the first week of classes, section changes are made via myPurdue, and no signatures are required. From the second through ninth weeks of the semester, see the instructor of the section you want to enter for the required signature. The schedule of classes can be found on the course web page, at the main desk in MATH 835, or on myPurdue. If you want to drop this course during the first nine weeks of the semester, then your instructor can sign your drop form. If your instructor is not available, go to MATH 835.

**LAST ADD DATE:** The last day you can add this course is Monday, February 6. Students adding at this time must take an alternate Exam 1. Students are expected to keep up with the current material while studying for the alternate Exam 1.

**COURSE EVALUATIONS:** On Monday of the fifteenth week of classes, you will receive an official email from evaluation administrators with a link to online course evaluations. You will have two weeks to complete this evaluation. You are strongly encouraged to participate—your feedback is vital to maintaining and improving the quality of education at Purdue University.