

MATH 205-04: Calculus I, Spring 2009

SYLLABUS

Lecture 2:30–3:45 Monday, Tuesday and Thursday, HU 114.

Prerequisites MATH 111-112, MATH 190 or appropriate placement score.

Professor Lee Larson, NS 323, 852-6826, LLarson@Louisville.edu.

Office Hours: 1:30-2:20, MTR. Feel free to ask about appointments for other times.

Text *Calculus, Early Transcendentals*, by James Stewart, Brooks/Cole Publishing Co., Sixth Edition, 2008, ISBN: 978-0-495-01166-8.

Web Page The Web page for this course is www.math.louisville.edu/~lee/09Spring205/. Check there for recent news, homework assignments or schedule changes. Most of the course information is on the Web page rather than Blackboard.

Material We will cover Chapters 1-4 and the first few sections of Chapter 5. This is an enormous amount of material to cover in 42 class periods. Because of this, not everything will be covered in class. Don't assume material not covered during lecture is not required! You have to read the book!

Mathematics is concerned with solving real-world problems through mathematical models. This course satisfies the general education requirement in the content area of mathematics.

Homework Suggested exercises will be selected from the book for every section covered as well as the supplementary exercises at the end of each chapter. Students are expected to know how to work them all. The solutions will not be collected. The suggested homework problems should be considered as a minimum set, not an exhaustive sample. A good way to use the homework problems is to try and work them. If you have trouble with one, the ones near by it on the page are usually similar, so you should also do those to master the techniques. The homework problems are listed on the Web page.

Grading There will be no hour tests in this course and homework will not be collected. Instead, the grade will be determined from total points earned from weekly quizzes, extra credit and a final exam.

Quizzes The first 20–25 minutes of each class period on Thursdays will be used for a 30 point quiz. The problems on each quiz will be very close copies of homework problems assigned earlier in the semester. (Not just the previous week!) At the end of the semester, the two lowest quizzes for each student will be thrown out and the rest of the scores will be added. If a class period is canceled because of bad

weather, the quiz will be given the following class period. All quiz questions are based on material from the beginning of the semester through the preceding Monday.

Final Exam A 200 point final exam will be given in HU 114 on Wednesday, April 29, 11:30_{AM}–2:00_{PM}

Extra Credit Extra credit problems will be suggested periodically during the semester. These problems will be somewhat more challenging than typical homework problems. Each extra credit problem is worth 10 points, but I reserve the right to give as many as 15 points for a particularly novel or well-done solution. Also, I will be very miserly with partial credit for these problems because you will have a week or more to get the details perfected.

The grades will be assigned according to a curve to be determined after the final exam. The curve will only take into account the total from the quizzes and the final exam. It will be no stricter than a standard scale: 90–100%=A, 80–89%=B, 70–79%=C, 60–69%=D, 0–59%=F. Extra credit will be added in after the curve is determined, so it can only raise your grade.

Lectures The course material will be covered in the order it appears in the text. There is much more material presented in the text than can possibly be thoroughly presented during class. The classroom lectures will have their greatest emphasis on working out examples and answering questions, not on presenting new material. So, students are expected to read the text and come to class prepared for the material which is to be discussed that day.

Calculators Calculators will not be allowed during the quizzes or final exam. Calculators may be used on homework and extra credit problems, but you should do much of the homework without a calculator as practice for the quizzes and final exam.

Changes I reserve the right to make changes in the syllabus when necessary to meet learning objectives, to compensate for missed classes, or similar reasons. Changes to the syllabus will be noted on the class Web page.