

MATH 205-11: Calculus I, Fall 2017

SYLLABUS

Lecture 8:00–9:15 Monday, Wednesday and Friday, NS 212F.

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

Professor Lee Larson, Natural Sciences 323, 852-6826, lee.larson@Louisville.edu.

Office Hours 9:30–10:30, MWF. Feel free to ask about appointments for other times.

Text *Calculus, Early Transcendentals*, by James Stewart, Cengage Learning, Eighth Edition, 2016, ISBN: 978-1-285-74155-0. The book is available online after you buy a WebAssign account. (www.webassign.net). The course identification number on WebAssign is: louisville 0736 8917.

The book is also available on good old-fashioned paper, but it is more expensive.

Web Page The Web page for this course is www.math.louisville.edu/~lee/17Fall205/. Check there for recent news, homework assignments, schedule changes and extra credit problems and solutions. Most of the course information is on the Web page rather than Blackboard.

Content We will cover sections 2.1–2.8, 3.1–3.6, 3.8–3.10, 4.1–4.5, 4.7–4.9, 5.1–5.5. This is a prodigious amount of material to cover in the available time. 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 text!

Chapter 1 is considered prerequisite material. Very little time will be spent on Chapter 1, with most of that time devoted to making sure the class is familiar with the notation and terminology.

This course is a college-level introduction to calculus applied to single-variable functions. We will cover functions, limits, continuity, differentiation, integration, and some applications of those concepts. This course includes the study of trigonometric, exponential, and logarithmic functions.

Homework Homework assignments for each section in the text will be available on WebAssign.

Grading There will be no hour tests in this course. Instead, the grade will be determined using the total points earned from weekly quizzes, online homework, extra credit and a final test.

Quizzes The first 20–25 minutes of each class period on Wednesdays will be used for a 30-point quiz. All quiz questions are based on material from the beginning of the semester through the preceding Friday. The problems on each quiz will be inspired by homework problems assigned earlier in the semester. (Not just the previous week!) If a class period during which a quiz is scheduled is canceled, then the quiz will be given the following class period.

Homework The homework problems on WebAssign are worth a varying number of points. The total points earned there by the end of the semester will be scaled to count a maximum of 50 points.

Final Test A 100-point final test will be given in NS 212E on Monday, December 4, 8:00 A.M.–9:15 A.M.

Extra Credit Extra credit problems will be suggested periodically during the semester. Each extra credit problem will be due one week after it is assigned, unless a special due date is announced. These problems are 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 stingy 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 test. 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. The curve will only take into account the total from the remaining quizzes, homework and the final test. It will be no stricter and almost certainly more lenient than the 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 mentioned during lectures. The classroom time will be mostly spent 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 Graphing calculators will not be allowed during the quizzes or the test. Calculators with lesser capability will be allowed.

General Education This course satisfies the university general education requirement in the mathematics content area. Students who satisfy this requirement must demonstrate that they are able to do all of the following:

1. Represent mathematical information symbolically, visually, and numerically;

2. Use arithmetic and geometric models to solve problems;
3. Interpret mathematical models, such as formulas, graphs, and tables;
4. Estimate and check answers to mathematical problems, determining whether those answers are reasonable, considering alternatives and recognizing correctness and completeness of solutions.

Note: It is a policy of the College of Arts and Sciences that general education courses may not be taken on a pass/fail basis.

Disabled Students The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact the Disability Resource Center (852-6938).

Clery Act Notification Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate University policies. Students experiencing such behavior may obtain confidential support from the PEACC Program (852-2663), Counseling Center (852-6585), and Campus Health Services (852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (852-5787) or University of Louisville Police (852-6111).

Disclosure to University faculty or instructors of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is not confidential under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University's Title IX officer.

For more information, see the Sexual Misconduct Resource Guide on the Web: louisville.edu/hr/employeerelations/sexual-misconduct-brochure.

Changes I reserve the right to make changes in this 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.