3450:221 Analytic Geometry–Calculus I, 2021 Fall Syllabus
Section 801: TueThu 18:20–20:00 (6:20–8:00 p.m.), Leigh Hall 311

Mr. Jonathan Hafner, CAS 246, jhafner@zips.uakron.edu
Website: http://www.math.uakron.edu/~jhafner/
Office hours: Mon–Thu 17:00–18:00 (5:00–6:00 p.m.), or by appointment

Prerequisites: 3450:149 Precalculus with a grade of C– or better, or placement. If you do not meet the prerequisites, you may be withdrawn from the course without refund.

Course Objectives/Learning Outcomes: Students will be expected to be able to
- communicate mathematical results through the proper use of mathematical notation and words;
- learn the definition of the limit of a function, how to calculate limits using the limit laws, and the definition of continuity;
- learn the definition of the derivative of a function and how to differentiate polynomial, exponential, trigonometric, and logarithmic functions, as well as products, quotients and compositions of these functions;
- learn applications of the derivative;
- learn the definitions of the definite and indefinite integral, the Fundamental Theorem of Calculus, and the substitution rule.

Text: *Calculus: Early Transcendentals*, 9th Edition, James Stewart et al., Cengage Learning. If you are registered for the class, you should have access to a digital version of the textbook through WebAssign, paid for by your "First-day Course Materials E-Content Fee". The UA Bookstore supplied the following statement on this matter:

> To reduce the cost of course materials, the materials for this course are provided digitally in Brightspace, and they will be charged to you through your tuition. There is nothing additional required for you to purchase, but discounted print copies may be available to you after the add/drop period. Please check with your bookstore staff. By law the cost is below market value, and it is very unlikely that you will find them cheaper elsewhere. If you choose to opt out of the program and source your materials in another format, you may do so by filling out the form provided at www.uakron.edu/book and taking it into the bookstore personnel.

There are a couple reasons you might choose to opt out of this program; see my website for more information.

Calculator: No calculators will be permitted on in-class assessments. All electronics, including phones and smartwatches, must be silenced and stored out of sight during tests and exams.
    Some out-of-class assignments and exercises will require the use of a calculator or computer, but there are plenty of free online tools that are sufficient for this purpose. If you already own a graphing calculator with which you are familiar, you will probably prefer to

use that, but if not, there's no need to buy one. Contact me if you have questions about where to find the necessary resources.

Homework: Assigned homework consists of two primary components:

A list of recommended exercises from the textbook will be supplied. These exercises will not be collected, but they are important for your learning and mastery of the material. You may find it necessary to do more problems than those suggested. Without adequate practice, you are likely to find the tests and exams to be too long and difficult.

There will also be several homework problems assigned to be submitted and graded. A modest number of points will be omitted from the total "possible", so you can miss an assignment or two without it hurting your grade. (If you do not miss any assignments, that adjustment will essentially convert a portion of your total into bonus points.)

Tests: A short test will be given at the beginning of the first class session of almost every week except the first. This may vary depending on the schedule; I expect roughly 12–14 tests over the course of the semester. Each test will cover the material discussed in class since the previous test (so, the previous week's classes, for the most part), and will probably be around 15–25 minutes in length.

If you will not be present for a scheduled test, contact me as soon as possible to discuss your options for taking it early. Under ordinary circumstances, make-ups after the fact will not usually be permitted. Instead, up to two of your lowest test scores will be replaced with your final exam score if the latter is higher. This essentially allows you to miss up to two tests without penalty; if you miss fewer than two tests, this replacement can make up for one or two of your lowest scores.

Final exam: A comprehensive final exam will be administered sometime during finals week, December 6–10. The format, schedule, and contents of this exam will be determined by the Department; I will pass any pertinent information along to you as soon as it is provided to me.

Grades: Your final grade will be based on the weighted average of your scores on assignments and assessments, with your homework total worth 15% of your grade, your test total worth 60%, and your final exam score worth 25%. From that, your *minimum* grade in the course is shown in the table below. (I reserve the right to make small upward adjustments at my discretion. Also, I may weight the final exam more heavily if it will help your grade.)

Percent:	<60	60+	63+	67+	70+	73+	77+	80+	83+	87+	90+	93+
Grade:	F	D–	D	D+	C–	C	C+	B–	B	B+	A–	A

Communication: Aside from face-to-face discussion, the best way to contact me is by email. While lengthy or detailed discussion is best handled in person, I encourage you to ask me brief questions about course material—including homework assignments—by email if it is feasible to do so. Aside from the convenience for you, it also makes it easier for me to send hints or clarifications to the entire class if I feel they are of general interest.

I will sometimes send important information or announcements to the class as a whole, or attempt to contact you directly if the need arises, using your UA email address. If you do not check this account regularly, you should set up forwarding to an account you do check.

My use of Brightspace is very limited; instead, information relevant to the course will be posted to my website, which you should check frequently. **Do not** attempt to contact me via the internal messaging systems of Brightspace or WebAssign, as I do not check those sites frequently—use regular email instead.

Other policies: All University rules and regulations are in effect, including those on attendance, discipline, academic dishonesty, and harassment. Avoid creating distractions and disruptions to the class: silence your phone, do not converse with your classmates during lecture, sit in the back of the room if you must use a laptop or tablet, etc.

You must be on the class list and properly enrolled in the course to participate in any way, including attending class or having work graded. See the University's website for information on add/drop deadlines. If you have a disability that requires accommodation, contact the Office of Accessibility immediately. Free tutoring is available in the University's tutoring centers: https://www.uakron.edu/tutoring/

COVID statement from the University: "The COVID-19 pandemic is still present and serious. Before entering class, you should have completed your daily health assessment. You should not come to class if you fail your health check or feel ill. At that time, I also ask you notify me that you will be absent. When campus policies require masks to be worn indoors, all students are required to wear a mask during in-person classes. While you are in class on campus, you are required to: sit in your designated seat, always cough or sneeze into your elbow or a tissue, and adhere to other public safety protocols and directives for your specific classroom/lab/studio. Students who do not follow these health and safety requirements will be instructed to leave class immediately. Students who violate this protocol will need to leave the classroom and MAY be marked absent. Repeated violations of these health-saving protocols may lead to sanctions under the Student Code of Conduct up to and including suspension or expulsion. Current guidelines can be found at: https://www.uakron.edu/return-to-campus/."