

MTH 151–02

Calculus I, Elmhurst University

10:30–11:20 a.m. M W F, 8:50–9:40 a.m. Tu Th, Daniels Hall 213, Spring 2025

Course Description: Rate of change of a function, limits, continuity, derivatives of algebraic and trigonometric functions, applications of the derivative, and introduction to integration and applications. Prerequisite: MTH 132 Precalculus or equivalent. Course credit: 1.0. One course credit (1.0) at Elmhurst University is equal to four (4.0) semester hours.

Professor: Dr. A. Rogers, he/him, Daniels Hall 218, allenr@elmhurst.edu

Email: If you email me Sunday through Thursday, I probably will respond by the end of the next calendar day. If you email me on Friday or Saturday, I probably will respond by the end of the following Monday.

Office hours: Online or in-person, send email to make appointment

WebAssign and Textbook: WebAssign is the online homework platform. You must purchase access to WebAssign, which includes an eTextbook (Stewart, Clegg, and Watson, Calculus, 9th ed., Cengage). You can purchase access when you first enroll in our course on WebAssign, or select “Temporary Access” to access your course materials now and make a purchase decision later. If you are taking additional courses that use Cengage materials, you can save by purchasing a Cengage Unlimited plan, which gives you access to all Cengage eTextbooks and online homework platforms for one price. Visit cengage.com/unlimited to learn more.

Note: “Cengage Unlimited” and “Cengage Unlimited eTextbooks” are different. *Don’t* subscribe to “Cengage Unlimited eTextbooks” because it doesn’t include WebAssign.

WebAssign due dates and homework procedures are discussed below.

Calculator: Exams may have calculator and no-calculator parts. For calculator parts, you may use a graphing calculator (e.g., TI-84 Plus) but not one with CAS (e.g., no TI-89, no TI-Nspire CAS). You may not use a phone app on exams.

Using Your Laptop in Class: In class, but not on exams, use whatever technology helps you learn.

Delivery Mode: Our class meets in person every day. I’ll email you if there’s a change: for example, if we meet remotely because of snow. The delivery mode of this course is subject to change based on county, state or federal guidelines, or on local conditions related to Covid-19.

Names and Pronouns: Feel free to tell me the name you use, including pronunciation, and the pronouns you use. Please correct me if I make a mistake. You can change your first name in Blackboard; this only changes how it displays in Blackboard. Contact the Office of Registration and Records to change your name with the University.

Grading: Letter grades are computed from seven components, weighted as follows:

Presentations	10%
WebAssign Homework	20%
Exam 1 (Thu, Feb 20)	14%
Exam 2 (Thu, Mar 13)	14%
Exam 3 (Thu, Apr 10)	14%
Exam 4 (Thu, May 1)	14%
Final Exam (Mon, May 19, 10:30–12:30)	14%
(the final only covers the last few weeks)	
Total	100%

Grading Scale: A [92, ∞), A– [90,92), B+ [88,90), B [82,88), B– [80,82), C+ [78,80), C [72,78), C– [70,72), D+ [68,70), D [60,68), F ($-\infty$, 60)

Presentations: Five oral homework problem presentations will be required. The presentation is a step-by-step explanation of how to do a homework problem. You choose the day, following this schedule.

<u>Presentation #</u>	<u>Give it on a class day, not an exam day</u>
1	before Exam 1
2	between Exam 1 and Exam 2
3	between Exam 2 and Exam 3
4	between Exam 3 and Exam 4
5	between Exam 4 and the Final

On the day you're giving a presentation, you choose a problem from the current homework assignment, and prepare in advance your presentation to give during class.

If you don't give your presentation during the time frame shown in the above table, no credit. The available time period is very lenient to accommodate any issues that may arise, including excused absences. Don't put off doing your presentation.

WebAssign Due Dates: All homework is on WebAssign. All Week 1 homework is eligible for full credit if completed by Wed of Week 2. Points you earn during this time are banked.

Then there is a grace period with a small penalty after Wed of Week 2. The grace period lasts through Wed of Week 3. Any new points earned during the grace period will be docked with a 10% penalty. No additional points can be earned after the grace period.

This is the pattern. All Week X homework is due by Wed of Week $X + 1$, with a grace period through Wed of Week $X + 2$. In the grace period, new points earned are docked 10%. After the grace period, no additional points. Due dates always mean 11:59 p.m. Chicago time on the due date.

The original and grace period due dates are very lenient to accommodate any issues that may arise, including technology issues or excused absences. Don't put off doing your homework.

Try to complete your Week X homework during Week X . Then you can focus on Week $X + 1$ homework during Week $X + 1$. If you put it off, you risk falling behind with learning new material, getting confused about due dates, and forgetting to complete your homework.

WebAssign Homework Procedures: Homework is open book, open note, open talk. You should work together with others. You may use online resources. Your homework goal is to master the material so that you can do the problems alone.

You may submit each problem separately for scoring. If it is incorrect, you may resubmit up to a total 5 tries. If you are still incorrect after 5 tries, you may email me and I will increase the number of submissions allowed. Since you are allowed to try again, you should have a goal of 100% correct. If you fall short of 100%, it is still very important to get at least 80% correct on each homework assignment.

As stated above, if you email me Sunday through Thursday, I probably will respond by the end of the next calendar day. If you email me on Friday or Saturday, I probably will respond by the end of the following Monday. If you email me for help or for additional submissions on a due date, it may be too late.

When you ask me for help by email, if you give me more detail in your attempted solution, then I'll be able to give you better help.

WebAssign Homework Expectations: Work out and fully write out your homework problem solutions neatly on your own paper. Don't do your homework on scratch paper. Don't do your homework by simply entering the answers in WebAssign. Keep your written homework solutions organized in a notebook.

Exams and Final Exam: If you miss an exam, you need a good reason for me to excuse you and allow a makeup. You must email me as soon as possible with an explanation, in advance if possible.

Outline of Course Topics:

- Ch 1: Functions and Limits
- Ch 2: Derivatives
- Ch 3: Applications of Differentiation
- Ch 4: Integrals
- Ch 5: Applications of Integration

Student Learning Outcomes:

- Demonstrate understanding of the meaning of limits, continuity, derivatives, and integrals in the context of single-variable functions;
- Compute finite and infinite limits of algebraic, trigonometric, and piecewise defined functions;
- Calculate derivatives using appropriate differentiation rules, including the power, product, quotient, and chain rules;
- Demonstrate understanding of the Fundamental Theorem of Calculus;
- Calculate indefinite and definite integrals using appropriate antidifferentiation rules, including the power rule and u -substitution;
- Use derivatives and integrals to solve applied problems involving slope, area, volume, rates of change, and accumulation.

Tentative Class Schedule: (subject to change)

2/3	Ch 1	2/4	Ch 1	2/5	Ch 1	2/6	Ch 1	2/7	Ch 1
2/10	Ch 1	2/11	Ch 1	2/12	Ch 1	2/13	Ch 1	2/14	Ch 2
2/17	Ch 2	2/18	Ch 2	2/19	Review	2/20	Exam 1	2/21	Ch 2
2/24	Ch 2	2/25	Ch 2	2/26	Ch 2	2/27	Ch 2	2/28	Ch 2
3/3	Ch 2	3/4	Ch 2	3/5	Ch 2	3/6	Ch 2	3/7	Ch 2
3/10	Ch 2	3/11	Ch 2	3/12	Review	3/13	Exam 2	3/14	Ch 2
3/17	Ch 2	3/18	Ch 3	3/19	Ch 3	3/20	Ch 3	3/21	Ch 3
3/31	Ch 3	4/1	Ch 3	4/2	Ch 3	4/3	Ch 3	4/4	Ch 3
4/7	Ch 3	4/8	Ch 3	4/9	Review	4/10	Exam 3	4/11	Ch 3
4/14	Ch 3	4/15	Ch 3	4/16	Ch 3	4/17	Ch 4	4/18	No class
4/21	Ch 4	4/22	Ch 4	4/23	Ch 4	4/24	Ch 4	4/25	Ch 4
4/28	Ch 4	4/29	Ch 4	4/30	Review	5/1	Exam 4	5/2	Ch 4
5/5	Ch 5	5/6	Ch 5	5/7	Ch 5	5/8	Ch 5	5/9	Ch 5
5/12	Ch 5	5/13	Ch 5	5/14	Ch 5	5/15	Ch 5	5/16	Review
5/19	Final 10:30–12:30								

Different Instructors Have Different Policies: Among your different classes, there will be different policies about homework resources, authorized materials, absences, due dates, emails, and so on. It is important to reexamine the syllabus for each class from time to time, to remind yourself requirements and expectations.

Changes: This syllabus is subject to reasonable change. I'll email any changes as soon as possible.

Additional Academic Integrity Information for This Course: You may use any resources for homework. Other courses may be different. Master the material so that you can do the problems alone.

On tests, however, intentionally obtaining or attempting to use unauthorized materials or information or unauthorized help from another person is considered cheating. The following comments are illustrative but not exhaustive.

Tests test how well the student has learned. Therefore, unless the professor specifies otherwise, all examinations are to be completed by the student alone, without extraneous assistance of any kind. That means no help is to be given to or received from other persons during the test; no books, notes, calculators, or other materials of any kind are to be consulted; and if a calculator or other hand-held electronic device is permitted to be used for mathematical calculations, no other information may be programmed into or retrieved from the device. Whenever the professor permits an exception to any part of these rules, the exception applies only as far as specified by the professor. Such exceptions must be expressly permitted and cannot be presumed from prior exceptions on other tests. (From *A Student's Guide to Academic Integrity at the University of Oklahoma*, Office of the Senior Vice President and Provost, University of Oklahoma, Norman Campus, <http://web.archive.org/web/20060824175857/http://www.ou.edu/provost/integrity/>, accessed August 23, 2006.)

Mask/Face Covering Policy (January and Spring 2025): Public health is everyone’s responsibility. Following current guidance from the Centers for Disease Control and Prevention and the Illinois Department of Public Health, masks are optional. This policy may change in response to the evolving situation. Our values of community and responsibility require that we treat each other with grace, respect, and civility, whether or not someone chooses to wear a mask.

If you have any symptoms associated with the current COVID-19 variants in circulation (sore throat, cough, congestion, fever, chills, headache, fatigue, loss of taste or smell, etc.) please get a COVID-19 test immediately. Stay home and isolate if you test positive for any respiratory virus. Do not attend classes in person and alert your instructor you will be isolating. After isolation is complete, follow current CDC guidelines and wear a well-fitting mask around others for an additional five days after the initial isolation period, regardless of vaccination status.

Learning Center: Academic Support: The Learning Center is the place to go for convenient, free access to academic support for all Elmhurst University students. We offer peer tutoring, “after hours” tutoring, guided study groups, academic workshops, and academic coaching on topics such as study strategies and time management. We can work with you to understand your assignment, get organized, explore your options, and use metacognitive, or self-reflective, strategies to grow and learn. It’s never too early to come work with a tutor! We have peer tutors in various disciplines, including writing and math, who can meet with you at any step in your learning process. To find out more, go to elmhurst.edu/LC.

To sign up for tutoring, study groups, and academic workshops, go to My Tutoring, located on the portal. For more information, contact Molly Rentscher, Director of the Learning Center, at molly.rentscher@elmhurst.edu.

Student Accessibility Services: Elmhurst University is committed to creating an inclusive learning environment for its diverse student population. If you experience or anticipate any barriers to learning, please notify the instructor as soon as possible. If you are a student with a documented disability and would like accommodations to participate fully in this class, contact Dr. Linda Harrell, SAS Director, at accessibility.services@elmhurst.edu. For more information, visit elmhurst.edu/SAS. If you previously received accommodations, please remember that they must be renewed each term.

Code of Academic Integrity: Elmhurst University is a community of scholars. Such a community places the highest value on academic honesty and integrity. Therefore, Elmhurst University’s Code of Academic Integrity is designed to ensure:

1. A fair academic environment where students are evaluated on the scholarly merits of their work.
2. An academic environment where personal integrity is fostered.
3. An understanding of standard academic practices when formulating ideas, conducting research, and documenting sources.

There are general campus-wide definitions of academic honesty as well as departmental guidelines, which are articulated in individual course syllabi. Students are responsible for educating themselves on this matter since sanctions for academic dishonesty may be severe. Thus, Elmhurst University students are expected to act honestly in all academic work.

The entire Code of Academic Integrity may be found in the Student Handbook available on the Student Life section elmhurst.edu/student-life of the University website.

Non-Discrimination and Non-Harassment Policy: The University’s Non-Discrimination and Non-Harassment Policy may be found on the University website. elmhurst.edu/TitleIX

Community Standards: The Community Standards may be found in the Elmhurst University Student Handbook available on the University website. elmhurst.edu/student-life

Support Resources and Supporting Fellow Students in Distress: As members of the Elmhurst University community, we each have a responsibility to express care and concern for one another. If you come across a classmate whose behavior concerns you, whether in regards to their well-being or your own, we encourage you to refer this behavior to the Director of Student Support Services and Intervention in the Office of Student Affairs through the Student of Concern referral form on the University website at <https://www.elmhurst.edu/student-life/support-services/support-services-intervention/>. Based upon your report, staff in the Office of Student Affairs reach out to students to make sure they have the support they need to be healthy and safe.

Additionally, we want to support you in your overall wellness. We know that students sometimes face challenges that can impact academic performance (examples include mental health concerns, food insecurity, homelessness, personal emergencies). Should you find that you are managing such a challenge and that it is interfering with your coursework, you are encouraged to contact the Director of Student Support Services and Intervention through studentaffairs@elmhurst.edu for support and referrals to campus and/or community resources. For any emergencies, call Public Safety at (630) 617-3000 or call 911.

Elmhurst University Civility Statement: The Elmhurst University Civility Statement has been endorsed by many major bodies on campus (Faculty Council, Academic Council, President's Cabinet, PACoDEI, Student Affairs Council).

In the spirit of our mission, vision, and core values, the Elmhurst University community aspires to co-create and maintain an environment of respect, integrity, courtesy, inclusivity, and human decency. This invites rigorous and respectful debate in which individuals are encouraged to participate in honest and open civil discourse. Honoring a tradition of social justice, Elmhurst University fosters a diverse, positive, and inclusive culture where members change and grow as they encounter new people and ideas.

Discrimination and Retaliation: As an employee of Elmhurst University, I am a Mandated Reporter of sexual harassment and retaliation that occurs toward students, faculty or staff. This means that if I receive notice of or specific information about an incident of sexual harassment, sexual assault, dating or domestic violence, stalking, or retaliation, I am obligated to share this with the University's Title IX Coordinator. This report to the Title IX Coordinator will enable the University to take appropriate action to ensure the safety of and to offer appropriate resources to those involved. For students, faculty, or staff not wishing to make an official report, confidential reporting options are available. Please see the University's Title IX webpage elmhurst.edu/TitleIX for more resources or to file a report.

Artificial Intelligence Tools: The use of generative AI tools (e.g., ChatGPT) is permitted for the following activities:

- Brainstorming ideas, topics, and searching terms,
- Drafting outlines to organize your thoughts, and
- Checking grammar and APA style.

The use of generative AI tools is *not* permitted in this course for the following activities:

- Submitting any work for points, including quizzes, preparation assignments, drafts, and final assignments.
- Impersonating yourself in course communications (e.g., email) or online posts and peer feedback.
- Writing partial or entire sentences, paragraphs, or papers to complete assignments.

You are responsible for the information based on an AI query (e.g., if it violates intellectual property laws, contains misinformation, or unethical content). If you have questions about permitted use, ask the professor for clarification.

Statement Regarding Netiquette: The University expects that all students will use appropriate online etiquette (netiquette) while using communication tools such as email, discussion boards, chat/messaging applications and otherwise interacting online in courses. Please follow these guidelines when communicating in this course:

- *Be respectful.* Be sensitive to the fact that others will have different cultural backgrounds, linguistic traditions and different political and religious beliefs.
 - *Use correct spelling and grammar.* This is an academic course so proper composition, punctuation and grammar are expected. Avoid using texting shortcuts, acronyms, and informal slang.
 - *Use appropriate language, style and tone.* Maintain a fair and objective tone and avoid making disagreements personal. Swearing and profanity should be avoided. Don't use all capital letters as this may be regarded as shouting, impolite or aggressive.
 - *Be credible.* Evaluate your sources for credibility. Always cite your sources as appropriate.
 - *Proofread before you send.* Remember that electronic communications may outlive the duration of the course. Proofread and review your writing before you post or send.
 - *Be forgiving.* In the absence of nonverbal communication misunderstandings are more frequent. If something offends you, work with the instructor regarding the incident rather than engaging in further enflamed discussion.
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