Math 1450 – Fall 2025
Calculus 1

My Contact Information

Name: Jay Pantone
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Email: jay.pantone@marquette.edu
(please email me directly, not through D2L or Wiley Plus)
Website: https://jaypantone.com/courses/fall25math1450
(includes course calendar)

Lectures: Cudahy 114
MWF, 11:00am - 11:50am

Discussion Sections: Tuesdays and Thursdays
various times
Cudahy 401

Office Hours: Monday, 12:00pm - 1:00pm
Wednesday, 2:00pm - 3:00pm
and by appointment (just email me!)
these times are tentative and subject to change

Help Desk Hours: See course website.

Teaching Assistant

Thomas Shomer thomas.shomer@marquette.edu

Course Structure

Lectures will be held in person in Cudahy 114 on Mondays, Wednesdays, and Fridays. Discussion sections will be held in person on Tuesdays and Thursdays with your teaching assistant. More information about discussion sections is below.

Communication Expectations

If something comes up that gets in the way of your classwork, or if you're falling behind and don't know what to do, the best thing you can do is to **get in touch with me as soon as possible**, and I will help however I can. Do not wait until weeks later to email me, because by then it may be too late to catch up.

I will send important class information to you via email throughout the semester, so I expect you to be checking your email regularly.

Calculus Help Desk

There is a *Calculus Help Desk* in Cudahy Hall that is staffed by TAs from different courses, open many hours per day for you to stop by for help. I will distribute the weekly schedule for the help desk when it's ready. You can go to the Calculus Help Desk **any time it is staffed**. You are not limited to only times where your TA is there.

I will also hold weekly office hours in my office. The hours are listed at the top of this syllabus. **You do not need an appointment for office hours.** Just drop by any time! Please watch this instructional and informative video about office hours: https://vimeo.com/270014784.

Textbook

Calculus: Single & Multivariable, 8th Edition, by Hughes-Hallett, Gleason, McCallum, et al.
We will be using the Wiley Plus online homework system, so **you will need an access code**. This comes as part of the bundles posted on Book Marq. Please see the "FAQ" on our D2L page about Wiley Plus for any additional questions.

Course Websites

Most important course information will be posted on our course website linked at the top of this syllabus. We will use D2L to keep track of grades. We will use Microsoft Teams if we need to hold a lecture virtually for any reason.

Discussion Sections

On Tuesdays and Thursdays, you will have discussion sections with your teaching assistant. These are opportunities to discuss the course materials, ask for help with homework questions, and work on activities in groups.

Skills check: The first Tuesday of the first week of the course, there will be an in-class written skills check. The purpose of this skills check is to verify that you are in the most appropriate course. Students who are placed in the appropriate course are far more likely to see long-term success in their academic career. Some students will then be encouraged to sign up for a one-on-one meeting on the Thursday of the first week. In the course gradebook, each student who completes the check will get full points, and this full score will count as the first Activity.

Activities: Almost every subsequent Tuesday there will be an in-class activity to be completed in small groups. At the end of the class period, you will turn in your work to your TA. There will be 15 total activities throughout the semester (including the skills check), each worth 4 points. We will drop the two lowest activity scores and then take the total out of 50 points. It is therefore possible to earn a score of 52/50 points on activities.

It is expected that you will attend all of the discussion sections and that you will **come prepared with questions to ask**.

Attendance Policy

Class participation and active learning are important aspects of this class, so your engagement is critical to your success. Therefore attendance is mandatory. The university attendance policy will be used for this course. See the undergraduate bulletin for details. Note in particular that a student may be withdrawn from this class if they incur six or more absences. If you have an excused absence, please let me know.

How to Succeed in this Course

I have designed this course to help you stay on track with the material. Here are my recommendations for doing well in this course.

- Stay on schedule! The Wiley Plus assignments and quizzes are at regular intervals, and ensure you cannot fall too far behind. Try the Wiley Plus problems for an assignment the same day as the corresponding lecture; don't leave them all for the day it's due.
- Do the suggested written textbook problems, even though they won't be collected. The point of homework in this course is to make sure you get enough practice on each topic, and doing the Wiley Plus assignments alone will definitely NOT be enough practice. Do each of the textbook problems I suggest (using the method in the "Written Homework" section below). You are encouraged to work with classmates on these problems. Whenever you get stuck, bring these problems to your next Discussion Section to go over with your TA. If you still feel a little shaky on a topic, pick more textbook questions to do.
- Make use of office hours and the Calculus Help Desk as much as possible. They are great resources to help with homework problems, get advice, or just chat about the course or mathematics in general.
- Find a good study group early on in the course who you can work with and talk to if you get stuck on a problem.
- If something comes up that gets in the way of your academic work, reach out to me as early as possible so I can help!

Free Tutoring

Free tutoring is available for this course through the Lemonis Center for Student Success, which can be found on the 4th floor of Raynor Library. More detailed information can be found at https://www.marquette.edu/tutoring/index.php.

Marquette Core of Common Studies – Discovery Tier "Expanding our Horizons"

A defining characteristic of human beings is our desire to ask questions and to explore the unknown. Calculus is both a language and a set of concepts created to probe the boundaries of the universe and investigate unsolved mysteries in numerous fields, such as biology, engineering, physics, economics, social sciences, etc. Calculus provides us with concepts and tools to express our innate desire to know and facilitates our pursuit of new technologies to better respond to our world's immediate challenges. It aids us in providing insights into the unknown and in the creation sustainable solutions for the future.

This course, and its supporting textbook and online homework system, will strive to challenge you to think beyond the current textbook section. You should expect that all problem sets will contain a problem, or a collection of problems, that will ask you to think far beyond a straightforward calculation.

Assessment

Your grades in this course will be based on four components, weighted as follows:

- Wiley Online Homework — 50 points, 8.33%
- 15 Discussion Activities — 50 points, 8.33%
- 9 Discussion Quizzes — 100 points, 16.67%
- 3 Midterm Exams and Final Exam — 400 points, 66.67%

  Total: 600 points

There will also be written homework from the textbook which will not be collected or graded, but which is **very important** for your success in the course!

Online Homework with Wiley Plus

Homework will be assigned through Wiley Plus. You will need an access code that will come with your textbook bundle. Your answers will be automatically graded by the system. This is usually pretty reliable, but it may take a little practice to learn how to properly format your answers.

There will be 13 Wiley Plus assignments, due mostly on Thursdays with a few due on Tuesdays (see the course calendar on the course website). The first assignment is due Thursday, September 4. You can earn all 50 points for Homework with a final score of at least 80% of all possible homework points. Scores below 80% will be scaled proportionally. For example if you earn 75% of all possible homework points, then you will get $(75/80) \cdot (50 \text{ points}) = 46.875$ points out of 50.

Some Wiley Plus tips:

- If Wiley Plus doesn't load, try a different browser or try clearing your browser cache.
- Be careful to pay attention to the notation you're using and the notation Wiley Plus is using. Some common errors include: using Π instead of π, using x when the variable is t, and misplacing parentheses.
- Unless the problem states otherwise, use exact answers (logs, fractions, etc.) instead of numerical approximations.

Please see the "FAQ" on our D2L page about Wiley Plus for any additional questions.

Tentative Wiley Plus Due Dates:

- ◇ Thursday, Sept 4 — Wiley Plus HW #1
- ◇ Thursday, Sept 11 — Wiley Plus HW #2
- ◇ **Tuesday, Sept 16** — Wiley Plus HW #3
- ◇ Thursday, Sept 25 — Wiley Plus HW #4

- ◇ Thursday, Oct 2 — Wiley Plus HW #5
- ◇ Thursday, Oct 9 — Wiley Plus HW #6
- ◇ **Tuesday, Oct 14** — Wiley Plus HW #7
- ◇ Thursday, Oct 23 — Wiley Plus HW #8
- ◇ Thursday, Oct 30 — Wiley Plus HW #9
- ◇ Thursday, Nov 6 — Wiley Plus HW #10
- ◇ **Tuesday, Nov 11** — Wiley Plus HW #11
- ◇ Thursday, Nov 20 — Wiley Plus HW #12
- ◇ Thursday, Dec 4 — Wiley Plus HW #13

Quizzes

In most weeks there will be a short quiz in the Thursday discussion section that covers material from the previous week. The goal of these is to make sure that you are keeping up with the material, and as long as you are, they should not be too hard. **The quiz questions will come verbatim from the suggested textbook homework.**

The quizzes will be worth a total of 105 points, and your total score at the end of the semester will be taken out of 100 points.

Tentative Quiz Dates:

- ◇ Thursday, Sept 4 — Quiz 1
- ◇ Thursday, Sept 11 — Quiz 2
- ◇ Thursday, Sept 25 — Quiz 3
- ◇ Thursday, Oct 2 — Quiz 4
- ◇ Thursday, Oct 9 — Quiz 5
- ◇ Thursday, Oct 23 — Quiz 6
- ◇ Thursday, Oct 30 — Quiz 7
- ◇ Thursday, Nov 6 — Quiz 8
- ◇ Thursday, Nov 20 — Quiz 9

Midterm and Final Exams

This course has three midterm exams that are roughly equally spaced out. They will take place at 5:00pm–6:00pm in our same classroom, Cudahy 114.

Each midterm exam is worth 100 points and the final exam is worth 150 points. On whichever of these four exams you get the lowest score, we will scale that exam to be out of 50 fewer points. This is roughly like dropping half of your lowest exam.

For example, if your lowest exam score was 40/100 on Exam 2, we will convert it to 20/50, which means instead of losing 60 points out of the 400 total for exams you will only lose 30 points out of that total.

Tentative Midterm Exam Dates:

- ◇ Wednesday, Sept 17 — Exam 1

- ◇ Wednesday, Oct 15 — Exam 2
- ◇ Wednesday, Nov 12 — Exam 3

Final Exam Date:

- ◇ Wednesday, Dec 10, 8:00pm–10:00pm (Room TBD)

The final exam will be cumulative.

Suggested Written Homework

For each section, I will assign a handful of textbook problems for you to use to practice the material until you've mastered it. I recommend the following practice regimen. For each problem, try to solve it without the book or your notes. If you can't figure it out, look at your notes or the book or the solution (if it's in the back of the book). Here's the key: if you couldn't solve it, make a note of the problem so you can come back to it a day later after you've forgotten the answer. Then repeat the process until you can do the problems without assistance. You should keep your solved problems in a notebook to help you study for the mini-exams and the final exam.

Office Hour Attendance Bonus Points

You can earn 4 bonus points towards your final grade by visiting me in an office hour and asking me *any* non-grade-related question. If you can't make my regular office hours, you may email me to set up an alternate time.

Grade Computation

The total number of points in the course is 600, as described above. The correspondence between points and final grades is in the table below:

points	percentage	grade
558 - 600	93% - 100%	A
540 - 557.99	90% - 92.99%	A-
522 - 539.99	87% - 89.99%	B+
498 - 521.99	83% - 86.99%	B
480 - 497.99	80% - 82.99%	B-
462 - 479.99	77% - 79.99%	C+
438 - 461.99	73% - 76.99%	C
420 - 437.99	70% - 72.99%	C-
402 - 419.99	67% - 69.99%	D+
360 - 401.99	60% - 66.99%	D
0 - 359.99	0% - 59.99%	F

Other Classroom Policies

AI Usage Policy

AI models can easily solve most of your homework problems, but there's a huge difference between seeing the right answer and understanding it, versus being able to get that answer yourself from scratch.

Learning happens during struggle. The moments where you are stuck on a problem and you think really hard and revisit your notes and then finally crack it, those are the moments where you get better at Calculus.

Using AI to do homework problems for you is like using a forklift to lift weights: the forklift does a great job, but you don't get stronger. For this reason, using AI to complete homework assignments is strongly discouraged.

AI can sometimes help explain topics or get you unstuck when you're truly stuck on a problem even after thinking really hard and looking through the textbook and your notes, but please remember that office hours and the help desk are better resources since we write the exams and know exactly what you need to master and what methods to use for each problem. Most importantly, you have to resist the urge to seek help the moment you encounter difficulty.

Let yourself struggle a little first!

Grading Disputes

If you believe that there has been an error in scoring an assignment, you must bring it to the attention of your TA within one week of the graded paper being returned. Your TA will carefully reread, and if necessary rescore, the assignment.

Classroom Conduct

The classroom is an interactive learning environment in which everyone should feel valued and comfortable. I strongly encourage you to ask questions and give answers throughout the term, even if (particularly if!) you're not sure that your answers are correct. This is an important part of the learning process.

Students in past courses have often told me that they might peek at their phone, or get otherwise distracted, when they see something in the lecture that they already know. Then, they look up a few minutes later and realize that they're already lost and because math lectures build on themselves, they tend to stay lost for the rest of the class period. To prevent this, and in order to not distract your classmates, I ask that you keep your phones away.

Returned Papers

You must retain all returned papers in case of any discrepancy with the recorded grades on D2L. I cannot correct any mistakes in grading or recording of scores without the original document. All concerns regarding grades on assignments must be brought to me within one week of the return of the paper.

Homework Collaboration Policy

It can be very helpful to study and work with a group. This type of cooperative learning is encouraged; however, be sure that you have a thorough understanding of the concepts as well as the mathematical steps used to solve an exercise. You must be able to work through the exercises on your own.

Accommodations and Special Needs

If you have a disability and require accommodations, please contact your instructor during the first week of class so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the Office of Disability Services. If you are unsure of what you need to qualify for services, visit the Office of Disability Services' website at https://www.marquette.edu/disability-services or contact their office by phone at (414) 288-1645.

Excused Absences

Students with absences due to legal obligations, religious observances, or participation in Division 1 athletics and other university sanctioned events will be given an opportunity to make up examinations or other graded assignments, if a request is made to the instructor prior to the absence. After all absences, excused or unexcused, you are responsible for contacting your classmates to obtain lecture note and any other missed materials.

Math 1450	Tentative Course Calendar			*Subject to change	Fall 2025
August	25 1.1-1.6(1)	26 Skills Check	27 1.1-1.6(2)	28 Meetings; No Class	29 1.1-1.6(3)
September	1 **Labor Day No Class**	2 Activity 1	3 1.1-1.6(4)	4 HW1 Due Quiz 1	5 1.7-1.9(1)
	8 1.7-1.9(2)	9 Activity 2	10 1.7-1.9(3)	11 HW2 Due Quiz 2	12 1.7-1.9(4)
	15 Ch 1-2 flex	16 HW3 Due Review	17 **Exam 1** 2.1	18 Activity 3	19 2.2
	22 2.3	23 Activity 4	24 2.4	25 HW4 Due Quiz 3	26 2.5
October	29 3.1	30 Activity 5	1 3.2	2 HW5 Due Quiz 4	3 3.3
	6 3.3/3.4	7 Activity 6	8 3.4	9 HW6 Due Quiz 5	10 3.5
	13 3.6	14 HW7 Due Review	15 **Exam 2** Ch3 flex	16 **Midterm Break**	17 **No Classes**
	20 3.7	21 Activity 7	22 3.9/MVT	23 HW8 Due Quiz 6	24 4.1(1)
	27 4.1(2)	28 Activity 8	29 4.2(1)	30 HW9 Due Quiz 7	31 4.2(2)
November	3 4.3(1)	4 Activity 9	5 4.3(2)	6 HW10 Due Quiz 8	7 4.6
	10 4.7	11 HW11 Due Review	12 **Exam 3** 4.8	13 Activity 10	14 Ch4 flex
	17 5.1	18 Activity 11	19 5.2	20 HW12 Due Quiz 9	21 5.3(1)
	24 5.3(2)	25 Activity 12	26 **Thanks-giving**	27 **Break**	28 **No Classes**
December	1 5.4(1)	2 Activity 13	3 5.4(2)	4 HW13 Due Review	5 Review
	8	9	10 **Final Exam**	11	12

Note: Exams 1, 2, and 3 are all at **5-6pm** in **Cudahy 114**.

The final exam is from **8-10pm**. Room TBD.