

# Syllabus · MA 27101

Fall 2025

## Lectures (MTWR)

---

Lectures will be face-to-face on Monday, Tuesday, Wednesday, and Thursday. You are expected to attend every lecture. Lectures are run by Prof. Hood at the times and locations listed below. Lectures will not be recorded but the notes will be posted on the Brightspace page.

Lecturer	LEC	Day	Time	Location
Dr. Kaitlyn Hood	H01	MTWR	2:30pm – 3:20pm	SCHM 122
Dr. Kaitlyn Hood	H03	MTWR	1:30pm – 2:20pm	SCHM 122

## Recitations (F)

---

Recitations will be face-to-face on Fridays. You are expected to attend every recitation session. Recitations are run by the Teaching Assistant.

Teaching Assistant	REC	Day	Time	Location
Connor Thompson	H02	F	8:30am – 9:20am	SCHM 121
Connor Thompson	H04	F	1:30pm – 2:20pm	SCHM 122

## Communication

---

Questions about math content are best asked in person, either before or after class or in office hours.

Questions about grading, course policies, calendar, etc. can be asked in person or via email. In your email communications, please include the course title “MA 271” in the subject line. In the body, please address your professor by Dr. Hood. Where possible, please write succinct emails. If more information is needed, Dr. Hood will reply with follow-up questions. Here are some links with information about [Emailing a Professor](#) and [Email Etiquette](#).

## Instructors' Contact Information

---

Instructor	E-mail	Office Hours	Office
<b>Dr. Kaitlyn Hood</b>	kthood@purdue.edu	Mon, Wed at 10:30 – 11:30am	MATH 844
<b>Connor Thompson</b>	thomp774@purdue.edu	Wed, Thu at 4:00 – 5:00pm	MATH 639

\*Dr. Hood will answer emails between 9am – 5pm on weekdays and will do her best to respond within 2 business days.

## Brightspace Page for MA 27101

---

Check the course Brightspace page (<https://purdue.brightspace.com/>) often for important information and announcements.

- All due dates for the semester are posted in Brightspace.
- Your grades will be posted in the Brightspace Gradebook.
- Any changes to the syllabus or important announcements will be posted to the Brightspace page under “Announcements”.
- You can access instructions for using Brightspace at the following page under “Learner Resources”: <https://www.purdue.edu/brightspace/Documentation.php>

## Course Calendar

---

The course calendar will be posted on the Brightspace page.

**Any changes or adjustments to the schedule will be announced on the Brightspace page.**

## Textbook

---

The textbook for this course is:

**Title:** Thomas' Calculus, Multivariable  
**Author:** Joel Hass, Maurice D. Weir, Christopher Heil  
**Publisher:** Pearson  
**Edition/Year:** 14<sup>th</sup>  
**ISBN:** 9780134606088

## Course Outcomes

---

At the end of the course, you will be able to:

1. Identify and/or find the equations for lines, planes, and quadratic surfaces in three-dimensions.
2. Calculate velocity, acceleration, arclength, and curvature using vector functions and/or parameterized motion.
3. Calculate partial derivatives, gradient, and directional derivatives. Use the multivariable chain rule to find derivatives. Use derivatives to find and identify extrema of multivariable functions.
4. Compute double and triple integrals and interpret their geometrical meaning.
5. Apply Green’s theorem to calculate line integrals over vector fields. Use Stokes’ theorem to evaluate line integrals, surface integrals, and find circulation. Use the Divergence theorem to compute net outward flux.

## iClicker Cloud Polls

---

In class participation will be collected and graded on Mondays, Wednesdays, and Thursdays via iClicker Cloud. Students must bring a mobile device (such as a phone, tablet, or laptop) to class in order to

participate in the iClicker Cloud polls. Purdue University has a sitewide license for iClicker cloud, so it costs nothing for the students to use.

The Polls are designed to:

- Actively engage students during the entire class period
- Gauge students' level of understanding of the material being presented, and
- Provide prompt feedback to student questions. ([Martyn, 2007](#))

There is “ample converging evidence” that clickers generally cause:

- Improved exam scores or passing rates,
- Improved student comprehension, and
- Improved learning. ([Caldwell, 2017](#))

Grading of the iClicker Cloud Polls will be as follows:

- The Poll Questions in each Class Session will be worth a total of 10 points:
  - **Participation Credit:** Students earn 5 points when they answer (correctly or incorrectly) at least 75% of the poll questions offered during that class session. For example, if there are four poll questions, a student must answer at least three polls to earn participation points. These answers do not need to be correct to earn the participation credit.
  - **Correctness Credit:** The remaining 5 points are graded on correctness and split evenly between the poll questions in that session. For example, if there are four poll questions in a class session, then each correct answer will be awarded 1.25 points.
- To accommodate both approved and unapproved absences, roughly 20% of the lowest scores of the Poll assignments will be dropped. (The exact number may change due to unforeseen circumstances, but 20% will be targeted).
- The Polls collected during the first week during the Add/Drop period will be counted as extra credit. There will be no penalty for missing the polls during this period.

To Login to iClicker Cloud:

- <https://student.iclicker.com>
- click on “Sign in through your campus portal” link at the bottom of the screen and log in with your Purdue Career Account login and password

## Class Activities

---

On some Tuesdays in lecture, there will be a graded in-class activity. These activities are designed to reinforce your learning for that week. They are also designed to be completed in class in groups. You will submit individual solutions to the Class Activity to Gradescope by the end of the day (i.e. Tuesday at 11:59pm). The lowest Class Activity score will be dropped at the end of the semester. Generative AI is not allowed on the Class Activities.

## Homework

---

There are weekly written homework assignments using *Gradescope*. You can access *Gradescope* through the Brightspace page.

- Homework is due weekly on Thursdays at 11:59pm.
- The lowest Homework score will be dropped.
- You are allowed to use calculators, notes, books, and to consult peers, TAs, and tutors to complete the homework. Generative AI is allowed in very limited cases (see section below). In all cases, your homework submission should reflect your own understanding.

## Late Work Policy

The lowest HW score and lowest Class Activity score will be dropped, but in return, late assignments will not be accepted. Gradescope will not accept submissions after the deadline has passed. If an assignment is missed for reasons that are serious, unavoidable, and beyond the student's control, the situation will be handled on an individual basis. Documentation may be required in such cases.

## Quizzes

---

There will be a quiz during face-to-face recitation almost every week. Quizzes typically cover the lecture material from the previous week.

- The Quiz schedule is posted in Brightspace under the description for each week.
- You are not permitted to use calculators, books, notes, electronic devices, websites, or to consult a peer or any other person on the quizzes.
- The lowest quiz score will be dropped.
- To earn partial credit, your work must be presented clearly and logically. If handwriting is illegible, points cannot be earned.
- You will have 15 minutes to take the quiz at the end of recitation (from X:05 – X:20).

## Calculators

---

Calculators are not allowed in exams. You may use calculators for homework assignments.

## Generative AI Policy

---

Generative AI should not be used to complete assignments, exams, or assessments unless explicitly permitted. You are responsible for developing your own mathematical reasoning and problem-solving skills, which AI cannot replace. While AI tools can sometimes be helpful, they also frequently produce incorrect or misleading solutions.

**Acceptable Uses:** You may use AI as a supplementary tool on the Homework, but not as a substitute for your own work. For example:

- Exploring concepts, clarifying definitions, or reviewing background material.
- Comparing solution approaches after you have attempted the problem yourself.

- If you are stuck on one small component of a larger problem, you may consult AI for directions or hints. But you must work through the solution independently.
- Any substantive use of AI (such as guidance you relied on for a particular step) must be cited in your work. (for example: consulting AI for a definition of divergence does not need citation, but asking AI for help with setting up a triple integral does require citation.)

**AI Citation Requirements:** If you use AI for hints or explanations on part of a problem, you must clearly acknowledge it. Your citation should include:

- The tool name and version/model. (for example: ChatGPT, GPT-5)
- A brief description of how it was used (for example: “asked for a hint for setting up the integral”)
- Recommended: The exact prompt used (for example: “Give me a hint for setting up the double integral for volume under  $z=4-x^2-y^2$ ”)

Place the citation inline next to the relevant problem.

**Accessibility:** AI tools must be equally accessible to all students (for example, free to use at the time of assignment).

**Prohibited Uses:** AI may not be used to complete in-class assignments such as the iClicker polls, Class Activities, Midterms, or the Final Exam. Submitting AI-generated work without permission or citation will be treated as academic dishonesty, with consequences in line with Purdue’s policies on plagiarism. This policy relies on your transparency; undisclosed AI use undermines both trust and your own learning.

When in doubt, ask Dr. Hood. Office hours are the best place to get reliable guidance on assignments.

## Technical Problems

---

If you have technical problems with Gradescope, you should first read the documentation on the help center at <https://help.gradescope.com/#>. If that does not resolve the problem, you should contact [help@gradescope.com](mailto:help@gradescope.com).

It is your responsibility to maintain your personal computer in working order. In the case of a malfunction, there are many [computer labs](#) on campus that you can use to complete the homework.

If you lose your phone, you can [request a Hardware Token](#) (free of charge) to submit BoilerKey Two-Factor Authentication. More information at [BoilerKey FAQ](#).

## Exams

---

There will be two midterm exams and a final exam.

- The midterm exams will be in-person written exams. No calculators will be permitted.
- The midterms are evening exams and will take place outside of class time and are scheduled for the dates below:

Exam	Date	Time	Location
Exam 1	Wed, Oct 8	6:30 – 7:30pm	BHEE 170
Exam 2	Thu, Nov 13	6:30 – 7:30pm	BHEE 170

- You are not permitted to use calculators, books, notes, electronic devices, websites, generative AI, or to consult a peer or any other person on the exams.
- Exam scores are final and there are no exam re-takes.

### Final Exam

- The final exam will be comprehensive, and it will cover the material from the entire course.
- The date and time of the final exam has not yet been scheduled by the Registrar. The final exam information will be announced later in the semester.

### Exam Conflict Policy

If you have a conflict between an evening exam for MA 27101 and another class or another evening exam, please contact Dr. Hood promptly to request accommodation. At least one week’s advance notice is preferred; in all cases, you should notify Dr. Hood no later than one business day before the exam. Documentation of the conflict (such as an exam schedule or course syllabus) may be required.

### Missed Exam Policy

If there are any special circumstances that may affect your ability to successfully complete an exam (illness, family emergency, religious observances, university-sponsored activities, etc.), you should discuss the situation with your instructor *before* taking the exam (if you are physically able to).

- In rare cases, students may be permitted to take a make-up exam.
  - This exam will be a different version from the in-person exam taken on the original date.
  - Make-up Exam dates and times are limited.
- If a student is sick at the time of the exam, the appropriate course of action is to schedule a make-up exam for when the student is feeling better. Once an exam is taken, it cannot be voided or retaken.

## Grades

---

Course grades are determined from your overall total score using a percentage scheme according to the formula in the table below:

Graded Item	Percentage
In Class iClicker Polls	10%
Class Activities	5%
Quizzes	10%

Homework	15%
Two midterms @ 15% each	30%
Comprehensive Final Exam	30%

- You can check your running Total Score online in the Brightspace Gradebook. The Total Score percentage grades will not be rounded.
- Final letter grades will be determined using the following tentative grading scale:

Tentative Grading Scale	
Letter	Percentage
A+	≥ 97%
A	93% - 96.9%
A-	90% - 92.9%
B+	87% - 89.9%
B	83% - 86.9%
B-	80% - 82.9%
C+	77% - 79.9%
C	73% - 76.9%
C-	70% - 72.9%
D+	67% - 69.9%
D	63% - 66.9%
D-	60% - 62.9%
F	< 60%

### Will there be a curve?

- Homework, Class Activities, and Poll Questions will not be curved.
- At the end of the semester, the total class score will be calculated according to the formula above and a letter grade assigned.
  - For each of the grades in the Tentative Grading Scale, it's possible that at the end of the semester a somewhat lower percentage will be enough to earn that letter grade.

## Attendance Policy

---

This course follows Purdue's academic regulations regarding attendance, which states that students are expected to be present for every meeting of the classes in which they are enrolled. While attendance itself will not be formally recorded, your participation in required class activities (such as iClicker Polls, Tuesday Class Activities, and Friday Quizzes) serve as an indirect measure of attendance and engagement. You are responsible for all information, announcements, and course material that is presented in lectures and recitation, even if you are absent.

## Important Dates

---

Last day to drop a course without it on your record:

**Monday, September 8, 2025**

Last day to drop a course and receive a W:

**Tuesday, November 25, 2025**

Please see [Fall 2025 Add/Drop Information](#) for more details.

## Academic Integrity

---

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing [integrity@purdue.edu](mailto:integrity@purdue.edu) or by calling 765-494-8778. While information may be submitted anonymously, the more information is submitted the greater the opportunity for the university to investigate the concern. More details are available on our course Brightspace under University Policies.

## Nondiscrimination Statement

---

A hyperlink to Purdue's full Nondiscrimination Policy Statement is included in our course Brightspace under University Policies and Statements.

## Accessibility

---

Purdue University strives to make learning experiences accessible to all participants. If you anticipate or experience physical or academic barriers based on disability, you are encouraged to contact the Disability Resource Center at: [drc@purdue.edu](mailto:drc@purdue.edu) or by phone: 765-494-1247.

If you have been certified by the Disability Resource Center (DRC) as eligible for accommodation, you should contact your TA to discuss your accommodation as soon as possible. You should send your Course Accessibility Letter (CAL) to your TA and to the professor. Here are instructions for how to send your course accessibility letter: <https://www.purdue.edu/drc/students/course-accessibility-letter.php> Accommodations will be implemented once the CAL is received. According to University policy, accommodations are not retroactive.

Students with disabilities whose DRC Course Accessibility Letter (CAL) includes test accommodations must first release their CAL to the instructor and then schedule to take their exams through the DRC at [olympic.accessiblelearning.com/Purdue](https://olympic.accessiblelearning.com/Purdue). While exams are scheduled through the DRC, the exams will be organized and proctored by the Undergraduate Math Office (UMO). You must schedule your exam at

least one week before the exam date listed on the syllabus. In the case of finals week, you must do this at least one week before the start of finals week. The instructor will provide the UMO with your exam and the UMO will administer it and provide the result to the instructor for grade reporting. Students who fail to follow this process and these deadlines risk not being able to have their accommodations for that exam.

## Mental Health/Wellness Statement

---

- **If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [WellTrack](#).** Sign in and find information and tools at your fingertips, available to you at any time.
- **If you need support and information about options and resources,** please contact or see the [Office of the Dean of Students](#). Call 765-494-1747. Hours of operation are M-F, 8 am- 5 pm.
- **If you find yourself struggling to find a healthy balance between academics, social life, stress, etc.,** sign up for free one-on-one virtual or in-person sessions with a [Purdue Wellness Coach at RecWell](#). Student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is free and can be done on BoilerConnect.
- **If you're struggling and need mental health services: Purdue University is committed to advancing the mental health and well-being of its students.** If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact [Counseling and Psychological Services \(CAPS\)](#) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS office on the second floor of the Purdue University Student Health Center (PUSH) during business hours. The [CAPS website](#) also offers resources specific to situations such as COVID-19.

## Basic Needs Security

---

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. There is no appointment needed and Student Support Services is available to serve students 8 a.m.-5 p.m. Monday through Friday.

## Commercial Note Taking in Classes

---

Notes taken in class are generally considered to be "derivative works" of the instructor's presentations and materials, and they are thus subject to the instructor's copyright in such presentations and materials. No individual is permitted to sell or otherwise barter notes, either to other students or to any commercial concern, for a course without the express written permission of the course instructor. See University Senate Document 03-9, April 19, 2004.

## Course and Instructor Evaluations

---

During the last two weeks of the semester, you will be provided an opportunity to evaluate this course and your instructor(s) through online course evaluations. On Monday of the 14th week of classes, you will

receive an official email from evaluation administrators with a link to the online site. You will have two weeks to complete this evaluation. Your participation in this evaluation is an integral part of this course. Your feedback is vital to improving education at Purdue University. We strongly urge you to participate in the evaluation system.

## Emergency Preparation

---

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Relevant changes to this course will be posted onto the course Brightspace page. You are expected to read your @purdue.edu email on a frequent basis.