

Syllabus · MA 26100

Fall 2023

Lectures (MWF)

Lectures will be face-to-face on Monday, Wednesday, and Friday. You are expected to attend every lecture. Lectures are run by the professors, listed below. Lectures will be recorded via Boilercast and posted on the Brightspace page.

Lecturer	LEC	Day	Time	Location
Dr. Daniel Johnstone	100	MWF	7:30am – 8:20am	CL50 224
Dr. Daniel Johnstone	300	MWF	8:30am – 9:20am	CL50 224
Dr. Andrey Glubokov	400	MWF	1:30pm – 2:20pm	CL50 224
Dr. Andrey Glubokov	500	MWF	2:30pm – 3:20pm	CL50 224
Dr. Kaitlyn Hood	200	MWF	3:30pm – 4:20pm	CL50 224
Dr. Kaitlyn Hood	600	MWF	4:30pm – 5:20pm	CL50 224

Recitations (TTh)

Recitations will be face-to-face on Tuesdays. You are expected to attend every recitation session. Recitations are run by the Teaching Assistants (TAs). A complete list of the TAs and their emails is available on the class website: <https://math.purdue.edu/MA261>

Communication

Due to the large number of students in this class, for most questions (for example, questions about deadlines, grading disputes, or technical issues), it is recommended that you email your TA first. If the TA cannot answer your question, they will forward it to the instructor.

Instructors' Contact Information

Instructors' contact information is listed below, as well as their office hours.

Professor	E-mail	Office Hours	Office
Dr. Johnstone	johnstdl@purdue.edu	TBA	MATH 438
Dr. Glubokov	agluboko@purdue.edu	TBA	MATH 840
Dr. Hood	kthood@purdue.edu*	Mon, Wed, Fri 2:00pm – 3:00pm	MATH 844

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

Math Resource Room

The TAs will hold face-to-face office hours in the **Math Resource Room (MRR)**. You can view the MRR hours here: <https://www.math.purdue.edu/academic/courses/helproom>

Supplemental Instruction

There are Supplemental Instruction (SI) study sessions available for this course. These study groups are open to anyone enrolled in this course who would like to stay current with the course material and understand the material better. Attendance at these sessions is voluntary, but extremely beneficial for those who attend regularly. Times and locations for the help sessions can be found here: www.purdue.edu/si or on Brightspace. Students who attend these interactive sessions will find themselves working with peers as they compare notes, demonstrate, and discuss pertinent problems and concepts, and share study and test-taking strategies. Students are asked to arrive with their student ID card, lecture notes and questions to these informal, peer-led study sessions.

Brightspace Page for MA 26100

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.
- The link to the online Homework and eText in MyLab Math will be posted in Brightspace.
- Your grades will be posted in the Brightspace Gradebook.
- You can find your REC section number, TA's name, and TA's email 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>
- **To access the content on the Brightspace page, including the link to the HW on MyLab Math, you must complete the "Academic Integrity at Purdue Acknowledgement" and "Quiz 0: Syllabus Quiz".** You have unlimited attempts to earn at least 80% on the Syllabus Quiz to access the rest of the Brightspace page.

Course Page for MA 26100

You can check this page for information about your lecture or recitation section. It will have your TA's name and contact information. <https://math.purdue.edu/MA261>

Course Calendar

The course calendar will be posted on the Brightspace page. The calendar is also posted online here: https://www.math.purdue.edu/~kthood/calendar_ma261_fa23.html

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

Textbook and Homework Access

Homework will be completed online in the Pearson MyLab Math platform.

- You will need an access code for Pearson MyLab Math.
- You should access Pearson MyLab Math through the course page in Brightspace.
 - **To access the link, you must first complete the “Academic Integrity at Purdue Acknowledgement” and “Quiz 0: Syllabus Quiz”. You have unlimited attempts to score at least 80% on the Syllabus Quiz. Once those are completed, the link to MyLab Math will appear.**
- For reference, the textbook is “Calculus, Early Transcendentals”, (Third Edition) by Briggs, Cochran, Gillett, Schulz.
- You do not need a physical textbook. A digital version of the textbook (eText) is included in Pearson MyLab Math.
- Video: [How to register for MyLab and Mastering with Brightspace by D2L](#)

There is a two-week grace period before you must purchase an access code. If you are taking more than one semester of calculus, the full access code (multi-semester) is good for all the Calculus courses (MA 16100, MA 16200, MA 16500, MA 16600, and MA 26100) since they use the same textbook.

Calculators

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

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.

Homework

There are 37 online homework assignments using *MyLab Math*. You can access *MyLab Math* through the Brightspace page.

- The Homework schedule is on the Brightspace page under the description of each week.

- Generally, homework from the previous lecture will be due at the end of the day of the subsequent lecture day. For example, homework from the Friday lecture will be due Monday at 11:59pm.
- The three lowest homework scores will be dropped.
- You are allowed to use calculators, notes, books, and to consult peers, TAs, and tutors to complete the homework. Your homework submission should reflect your own understanding.

Unlimited Attempts

There are unlimited attempts on the homework questions.

- Open Answer Questions: you have 3 tries to answer the question correctly.
- Multiple Choice Questions: the number of tries = number of choices - 2

After a student has reached the maximum number of tries on a question, they will be presented with another **attempt**. This will be a similar question but with different coefficients and a different solution. Students will have **unlimited attempts** at each question with (up to) 3 tries for each attempt.

Notes:

1. You will use one attempt when you access “Help Me Solve This”.
2. The highest grade of all attempts is recorded in the Gradebook. There is no penalty for submitting an incorrect answer.

Homework Score Appeal

If you believe there was a mistake in the grading of a homework question, please contact your recitation TA by email.

Technical Problems

If you have technical problems with MyLab Math, you should contact [Pearson Technical Support](#). Extensions on HW will not be given unless you have documentation in the form of a letter from Pearson Technical Support and a case number.

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](#).

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.

- There are 11 quizzes in total (numbered Quiz 0 – Quiz 10), and the lowest quiz score will be dropped.
- Each quiz will be roughly 2-3 questions and at least one question will be graded for partial credit.
 - To earn partial credit, your work must be presented clearly and logically. If handwriting is illegible, points cannot be earned.
 - Quiz questions will be randomly selected from the [Past Exam Archive](#).
 - Here is a link to the [Quiz Study Guide](#).
 - You will have 15 minutes to take the quiz at the end of recitation (from X:05 – X:20).

Exams

There will be two midterm exams and a final exam.

- All exams are course-wide, multiple-choice, machine-graded exams.
- There is no partial credit on the exams. Only what is marked on the scantron will be graded.
- The two midterms are both evening exams. Dates and times are listed below:

Exam	Date	Time	Location
Exam 1	Tuesday, Oct 3, 2023	8:00 – 9:00 pm	TBA
Exam 2	Tuesday, Nov 7, 2023	8:00 – 9:00 pm	TBA

- The final exam will be comprehensive, and it will cover the material from the entire course. The final exam information will be announced later in the semester.
- You are not permitted to use calculators, books, notes, electronic devices, websites, or to consult a peer or any other person on the exams.
- Exam scores are final and there are no exam re-takes.

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
Homework	16%
Quizzes	16%
Two midterms @ 17% each	34%
Comprehensive Final Exam	34%

- 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+	≥ 96%
A	92% - 95.9%
A-	88% - 91.9%
B+	84% - 87.9%
B	80% - 83.9%
B-	76% - 79.9%
C+	72% - 75.9%
C	68% - 71.9%
C-	64% - 67.9%
D+	60% - 63.9%
D	56% - 59.9%
F	< 56%

Will there be a curve?

- Individual Homework and Quizzes will not be curved.
- At the end of the semester, if there are discrepancies in the quiz grades between recitation sections, then it is possible that the Total Quiz Subtotal may 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.
 - If the grading scale changes, it will be chosen so that the grade distribution is consistent with previous semesters of this class.

A Note about Grades:

- This is a college level class, and the grades are generally lower than what is typically seen in (U.S.) high schools. Please refer to the Tentative Grading Scale (above) when assessing your progress in the class.

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. Attendance will not

be recorded, but you are responsible for all information, announcements, and course material that is presented in lectures and recitations.

Missed Exam Policy

If there are any special circumstances that may affect your ability to successfully complete an exam (illness, family emergency, conflict with another class at Purdue, 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.
- Make-up exams should be requested within 48 hours of the original exam date. When possible, advance notice is preferred.

Late penalties on Exams	
Reason for Missing an Exam:	Late Penalty:
Approved Absence with Supporting Documentation*	No Late Penalty
Forgot the time or date of the exam, arrived late to the exam**	20% Late Penalty
If a student is sick (for example, with a cold), they should email their instructor to negotiate an appropriate course of action.	

***Supporting Documentation of Approved Absences** – A table of what supporting documentation to provide for each Approved Absence is listed on pages 9-11.

****Unapproved Absences** – If you miss an exam with an Unapproved Absence such as remembering the time or date wrong, you will be given an opportunity to take a make-up exam with a 20% late penalty.

- That means, for an exam worth 100 points with a 20% late penalty, then 20% of your scored points will be subtracted from your score. For example, if you scored 86/100 on the exam, then your score will become $(86 * 0.8) / 100 = 68.8 / 100$ after the penalty is applied.
- If a student arrives at an exam more than 20 minutes late, they will not be permitted to take the exam. The student will have to take the make-up exam later. The 20% late penalty will be applied (unless the student provides documentation for an Approved Absence).
- Requests for a Make-Up Exam due to an Unapproved Absence must be made within 48 hours of the original exam date. Requests after that deadline will be denied.

Missed Homework and Quiz Policies

If you miss a HW or Quiz deadline due to a Purdue University [Approved Absence](#), then you may request an accommodation.

First Contact with TA

- You should make your first contact with your TA regarding your situation **by 48 hours following the due date** (unless you are physically unable to).
- The first contact with the TA can be very brief if you are not able to explain the situation in detail. Supporting documents can be provided later when they are available. The main purpose of the first contact is to make the TA aware of the situation.

Confirm Sent Email

To be sure that your email is sent out to your TA, you can double check your sent box after you send the email. It will not be a valid reason for not sending the email on time because you thought the email was sent out, but actually it was not.

Missed Homework

If you miss a Homework deadline due to a Purdue University [Approved Absence](#), then you may contact your TA to request an extension. You must contact your TA about their extenuating circumstance **by 48 hours after the due date** and provide necessary **supporting documentation** to receive an extension. An extension of the deadline will be given according to the chart below:

Length of Approved Absence	Length of Extension on HW
1 day	HW due date extended by 2 days
2 days	HW due date extended by 3 days
3 days	HW due date extended by 4 days
4 days	HW due date extended by 5 days
5 days	HW due date extended by 6 days
6 days	HW due date extended by 7 days
7+ days	If a student is absent for more than 7 days, they should email the instructor (and CC the TA) to discuss a plan for the missed work.

Missed Quizzes

If you miss a Quiz deadline due to a Purdue University [Approved Absence](#), then you may contact your TA to request an exemption. This means that the missed quiz will not count toward your total grade. You must contact your TA about your extenuating circumstance **by 48 hours after the due date** and provide necessary **supporting documentation** to receive an exemption. **There are no make-up quizzes.** Instead, the lowest quiz score is dropped to accommodate any unforeseen absences for which documentation is not easily available.

Supporting Documentation

- If you have an extenuating circumstance for missing a deadline, we will do our best to make the accommodation needed based on the situation. You are expected to provide supporting documentation for missing the deadline.
- To account for situations where a supporting document may not be easily available, **we drop the three lowest homework scores and the lowest quiz score.**
- Please read the table below for the type of documentation needed for each absence.

Type of Absence	Description of Absence	Supporting Documentation Needed
Grief Absences	We know that a time of loss can be difficult for a student. Students are eligible for a specific number of days of excused absence following the death of a loved one.	Submit a Grief Absence Request Form .
Jury Duty Absences	Students summoned to serve as potential jurors or who have been empaneled as jurors in a criminal or civil trial may request an excused absence.	Submit a Jury Duty Absence Request Form .
Military Absences	Purdue recognizes that those actively serving in the reserves or National Guard of the United States are required by their military contract to attend mandatory training, with failure to participate punishable under law.	Submit a Military Absence Request Form .
Parenting Leave	Students who are pregnant, have recently given birth, or need a leave of absence to care for a newborn, adopted, legal guardian, or foster care, may petition for a leave of absence.	Submit a petition for a leave of absence through the Office of Institutional Equity (OIE) .
Medical Absences due to long-term conditions	For doctor's visits, medical procedures, or flare-ups due to an ongoing long-term health condition , you should request accommodations under the Americans with Disabilities Act (ADA).	Contact the DRC (Disability Resource Center)
Emergent Medical Absences (Formerly MEAPS)	Students may occasionally miss class and other academic obligations due to hospitalization, emergency department, or urgent care visits , whether physical or mental health related. This policy intends to afford arrangements for students experiencing serious and short-term medical situations that cause them to miss coursework or exams.	Submit a Medical Excused Absence Request Form .

Other Non-Emergency Illnesses	<p>Absences due to non-emergency illnesses (like the flu or a cold) are not covered by the MEAPS policy. Covid-19 diagnosis (with mild symptoms) is now covered by this policy.</p> <p>If a student has multiple illnesses during the semester, an appropriate course of action will be negotiated with the TA and instructor.</p>	<p>The first day of illness may be excused without documentation. For longer absences due to illness, a doctor's note is needed.</p> <p>(Please minimize the medical information you share. A doctor's note verifying your dates of absence is sufficient.)</p>
Travel for Purdue University Activities	<p>Travel for Purdue sports teams or other academic related events may be approved.</p>	<p>A letter signed by the sponsor of your Purdue University activity.</p>
Personal Emergencies or Unforeseen Circumstances	<p>Personal emergencies or unforeseen circumstances may be approved with documentation. These include:</p> <ul style="list-style-type: none"> - House fire - Car accident - Visa problems - Cancelled flights - Family emergencies 	<p>The type of documentation may be negotiated with the TA or instructor.</p> <p>For help with contacting an instructor about an absence, see these Coaching Tips.</p>
Religious Observances	<p>Religious holidays may be approved with documentation and advanced notice</p>	<p>A letter from clergy with dates of absence.</p>
Evening Exam conflict with other class at Purdue	<p>According to the Office of the Dean of Students, regularly scheduled classes take precedence over evening exams. A student with a conflict must provide documentation, then they will be permitted to take the alternate exam with no late penalty.</p> <p>The same procedure applies to students with two evening exams at the same time.</p>	<p>Fill out the Exam Conflict Form and return to Dr. Hood.</p>
Technical Problems	<p>There are computer labs on campus students can use if their personal computer is malfunctioning.</p> <p>Check the Pearson Student Support page with answers to common questions. If all else fails, contact Pearson Technical Support.</p> <p>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.</p>	<p>A letter from Pearson Technical Support and a case number.</p>

Other Absences	Absences or missed assignments due to the following events will not be approved: <ul style="list-style-type: none"> - Overslept/forgot the due date. - Had a due date in another class. - Didn't finish before the deadline. - Vacation or personal travel. 	
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Section Changes and Drops

During the first week of classes, you can make section changes or drop the course yourself within myPurdue, and no signatures are required. From the second week until the deadline, you need to submit an electronic section change or withdrawal request on myPurdue.

If you switch between recitation sections, please email both your previous TA and new TA to ensure that your HW and quiz scores are copied over into the new Brightspace Gradebook.

Important Dates

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

Friday, September 1st, 2023

Last day to drop a course and receive a W:

Monday, November 27th, 2023

Please see [Fall 2023 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 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 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. 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.