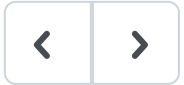




MTH 234 - FALL 2023



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Syllabus -- IN-PERSON

Syllabus Outline

- [Instructor Contact Info](#)
- [Schedule](#)
- [Objectives](#)
- [Supplies](#)
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Welcome / Meet Your Instructors / Office Hours / Etc.

MTH 234 will be utilizing a team-teaching approach to give students the highest quality class possible. This semester we plan to offer a variety of learning opportunities both in-person and online.

Meet the MTH 234 instructional team (includes contact information and office hours)

[INSTRUCTOR INFO / MTH 234 TEACHING ROSTER](#)

Communication with Instructors

Most instructors prefer to be contacted via email or via [Piazza](#). Instructors will strive to respond to emails and [Piazza](#) posts within one business day but may not respond if

- they already addressed or are planning on addressing the question/issue in class to everyone, or
- if the answer is available on the syllabus/course website.

Therefore, it is a good idea to check the syllabus and course website before emailing your instructor!

Learning the Course Content

There a variety of course modalities offered this semester to assist students best learn the course content given their location and situation

- LEC1 -- with Ryan Maccombs ONLINE ASYNC
- LEC2 -- with Ryan Maccombs in A133 Life Sciences at 1020-1110 on MWF
- LEC3 -- with Casim Abbas in B119 Wells Hall at 1130-1220 on MWF
- LEC4 -- with Michail Paporizos in 402 Computer Center at 1350-1440 on MWF
- SCN29 -- with Casim Abbas in A308 Wells Hall at 1020-1110 on MWRF
- SCN30 -- with Son N Tu in A236 Wells Hall at 1130-1220 on MWF
- SCN31 -- with March Boedihardjo in A320 Wells Hall at 1350-1440 on MWRF
- SCN32 -- with Nicholas Robino in A218 Wells Hall at 1800-1910 on MTR

- SCN33 -- with Shashini Mudiyansele in A230 Wells Hall at 1700-1810 on MTR

These modalities have been displayed on <https://student.msu.edu/> since before the semester began. Students who wish to have a different course modality should switch into the correct section. Students are expected to attend class for their own section and will not be allowed in during other classes without instructor's prior approval.

Similar to the lectures, the recitations will be held in a variety of modalities. The structure of the recitation is available for each section via [our recitation document](#). During recitation, students will work on the weekly review document and can ask questions to their TAs (either in class or via Zoom).

A Small Warning

We believe that every one of you can be successful in this math course, but it certainly takes work.

We expect you to give this class your all. Make a routine and stick to it. We typically find that students need to spend on average 10-12hrs per week but more if it's been a while since your last math class. You should plan on a breakdown like:

- 4 hours of class lessons/videos, 6 hours of homework, 1-2 hours of study

Calculus classes can be difficult but if you put in the time and effort we will bend over backwards to help you succeed. We expect you to ask questions whenever anything is unclear.

Tentative Weekly Schedule

The schedule is maintained in the [Weekly Schedule Document](#)

Again, this schedule is tentative. Your instructor will make any announcements about schedule changes during class or via email. The lesson numbers are from our recommended course textbook (Calculus by Stewart 7th ed.).

Important University dates (such as enrollment periods or last date to drop the class without a grade) are maintained at <https://reg.msu.edu/ROInfo/Calendar/academic.aspx>

Course Objectives

[The course objectives for Multivariable Calculus](#) are maintained on this separate webpage.

Supplies

WebCam

A webcam on your laptop/desktop is necessary for the Respondus Monitoring software to work. No particular type of webcam is required. Make sure you order this at the beginning of the semester so that it arrives in time for the first assignment. If you do not own a webcam already it is recommended that you buy one immediately.

Internet

With this being an online class, [a decent internet connection is crucial](#). We recommend 25mbps or more.

WeBWork Homework

WeBWork Homework will be done online at <http://www.math.msu.edu/webwork>. For information on cost, payment due date, etc. please visit <http://www.math.msu.edu/webwork>.

Respondus Lockdown Browser

For this class, we will use the Respondus Lockdown Browser and Monitoring software to ensure that students have a level playing field on quizzes and exams. There will be a practice quiz in D2L that uses the Respondus system so you can practice and download the browser ahead of the proctored assignment for points.

Calculator

When submitting fill-in-the-blank style questions in D2L it only understands decimals. A [TI-30 calculator \(or equivalent\)](#) is crucial to being able to submit your answers for the quizzes/exams. Calculators that can do some calculus like the TI-83 / TI-84 / most Casio models / etc. are absolutely not allowed and will result in a penalty grade if you use them on a quiz or exam.

Access to a Printer

PDFs will be provided as class notes. Many students find it very useful to print these out prior to watching the videos/attending class. In addition, a formula sheet is provided for exams that should be printed.

Access to a Scanner / Scanning App

For quizzes and exams you are required to scan your work and submit it as a PDF. There are many scanning apps that you can get for your smart phone / tablet that will work well for this such as Adobe Scan, Dropbox Scan, or the CamScanner. We recommend you practice scanning some papers and getting it to your computer as a single PDF so you know if there are any issues/hiccups before taking the quizzes / exams.

Textbook (SUGGESTED)

No textbook is required for the class however it is recommended Students who would like to purchase a textbook (for extra problems or another perspective on the topics) should consider

- [Calculus 7th Edition by Stewart via Cengage in D2L](#)
- Same book but on Amazon: [Calculus 7th Edition by Stewart](#)

This textbook is also available free digitally via [MSU Libraries' Affordable Textbook Guide](#). Digital

The textbook is also available free digitally via [this link](#). Digital loans will have the same checkout period as print textbooks (2 hours) – links to electronic copies will expire at the end of this loan period.

Course Grades

Weekly Review Activities

Students are expected to attend recitation in-person. During recitation students will work with fellow students and their TAs on a set of review problems each week. These problems should be submitted at the end of class. Each assignment is graded out of 5 points based on

- Completeness -- 3pts max -- A maximum score is awarded for seriously attempting 75%+ of the problems
- Correctness -- 2pts max -- A random problem or two will be graded for on method (not just the correct final answer). A maximum score is awarded if the solutions to the problem(s) graded are at least 70% correct.

The 2 lowest will be dropped to account for any and all [special circumstances](#). No additional drops, extensions, or additional make-up opportunities can be granted.

WeBWork Homework

WeBWork is our online Homework platform available via: <http://www.math.msu.edu/webwork>. To encourage the discussion of the "ideas" behind the problems instead of just the answers students receive slightly different problems (such as a change of constants or functions). There is a WeBWork fee that must be paid. Instructions for payment and payment due date are available on the WeBWork website. See each assignment on the WeBWork website for its due date. 8% of the total homework points will be added to your course grade calculation to account for any [special circumstances](#). Make-ups / retakes / extensions will not be granted. Start working on WeBWork homework for each section immediately after that section is covered. There are special "Achievement Items" that are available in WeBWork and described in the tutorials. Make sure that you have used all of your achievement items by the "Classes End" date on the registrar's site. Items used after this will not be counted in your overall grade calculation.

Quizzes

The quizzes are proctored assignments using the Respondus system. Quizzes are meant to prepare you for the exams and contain similar styles and difficulty of questions. The dates for the quizzes are available in [the schedule](#). The quizzes will be available during 3PM - 9PM on these days. Once you begin you have 30 minutes to complete it. You should start quizzes no later than 8:20PM so that way you can submit them by 9PM. Quizzes submitted after 9PM will be considered late. We cannot grant early quizzes. We cannot grant quiz retakes.

Quiz Accommodations for Special Circumstances

- Students who have an approved university grief absence, MSU class / exam conflict spanning the entire quiz window, military obligation, or [religious holiday](#) should reach out to their instructor at least 1 week prior to the quiz to discuss possible accommodations.
- For all other special circumstances (tech issues / illness / emergencies / University sanctioned events / travel / work / [etc.](#)) students will be accommodated via the drop / make-up policy

makeup policy.

- **Quiz Makeup Policy:** Makeup quizzes are permitted anytime after the quiz is due (this covers late quiz submissions as well) with a 70% maximum score if the quiz is submitted within 24 hours of its due date / time and OR a 50% maximum score if the quiz is submitted beyond 24 hours of its due date / time.
- **Quiz Drop Policy:** The lowest quiz score will be dropped at the end of the semester in your course grade calculation.

Please read the "[Showing your work on Quizzes / Exams](#)" so that you understand what work you must submit for grading after each quiz. Make sure to read the intro page for the quizzes and the [academic integrity during proctored assignments](#) section to make sure you understand the rules you are expected to adhere to during the quizzes. Penalty grades will be awarded to those who violate the quiz rules.

Midterm Exams

The midterm exams are proctored assignments using the Respondus system. More information about the structure of the exam including the types of questions will be released as the exam gets closer. The dates for the exams are available in [the schedule](#). The exams will be available during 7-9PM on these days. Once you begin you have 1 hour to complete it. You should start exams no later than 7:45PM so that way you can submit them by 9PM. Exams submitted after 9PM will be considered late. We cannot grant early exams. We cannot grant exam retakes.

Exam Accommodations for Special Circumstances

- Students who have an approved university grief absence, MSU class / exam conflict spanning the entire exam window, military obligation, or [religious holiday](#) may [request an alternate exam date/time](#) but should do so at least 1 week before the exam date.
- For all other special circumstances (tech issues / illness / emergencies / University sanctioned events / travel / work / [etc.](#)) students will be accommodated via the drop / makeup policy.
 - **Exam Makeup Policy:** Makeup exams are permitted anytime after the exam is due (this covers late exam submissions as well) with a 70% maximum score if the exam is submitted within 24 hours of its due date / time and OR a 50% maximum score if the exam is submitted beyond 24 hours of its due date / time.
 - **Exam Drop Policy:** The lowest exam score will be dropped and replaced by the final exam score at the end of the semester if it helps the student's overall course grade.

Please read the "[Showing your work on Quizzes / Exams](#)" so that you understand what work you must submit for grading after each exam. Make sure to read the intro page for the exams and the [academic integrity during proctored assignments](#) section to make sure you understand the rules you are expected to adhere to during the exams. Penalty grades will be awarded to those who violate the exam rules.

Final Exam

The Final Exam is 2 hrs long at the date / time is determined by the University.

Monday December 11th during 10AM-12PM ET

More information about the structure of the exam including types of questions will be released as

the exam gets closer. The final exam is cumulative and it is a proctored assignment using the Respondus system. Please read the "[Showing your work on Quizzes / Exams](#)" so that you understand what work you must submit for grading after the final. Make sure to read the intro page for the final exam and the [academic integrity during proctored assignments](#) section to make sure you understand the rules you are expected to adhere to during the final exam. Penalty grades will be awarded for those who violate the exam rules. Those with another final exam scheduled during this time or three or more final exams scheduled on this day may [request an alternate final exam date/time](#) but must do so at least 1 week before the final exam date. No makeups are permitted for the final exam.

Project (Optional)

The project is a tougher or more applied problem (or problems). Students can work on their own or in groups. Computers and technology are welcome. The projects will become available on D2L throughout the semester and each project has its own specified due date. Late submissions, within 24 hours of the due date, will be accepted but with a maximum score of 70%. Submissions more than 24 hours late will not be accepted. See [the project folder](#) in D2L for a complete set of rules and rubrics.

Overall Grade Computation

Your course grade will be based on:

Weekly Reviews	Homework	Quizzes	Projects	Exams	Final
10%	15%	20%	0%	3x11%=33%	22%

Or alternatively, if you complete the project, your course grade will be based on:

Weekly Reviews	Homework	Quizzes	Projects	Exams	Final
10%	15%	20%	5%	3x11%=33%	17%

Final grades will be determined by:

4.0 Grade	0.0	1.0	1.5	2.0	2.5	3.0	3.5	4.0
% Grade	[0,55)	[55,60)	[60,65)	[65,73)	[73,80)	[80,85)	[85,90)	[90,100]

Extra Credit

There are exactly two extra credit opportunities in this course. They are two "round-up" surveys during the semester to help the department gain a better understanding of its student population. [The pre-course survey](#) must be completed in the first week of class. [The post-course survey](#) will be available during the last week of class. The URL to the surveys and due dates/times will be posted on D2L when available. No extensions can be provided on these surveys. Each completed survey contributes at least 0.5% to the overall course grade. These surveys are made to help round up any students who are close to the next grade threshold. There is no additional rounding

beyond this. Individual instructors do not have the capabilities of creating additional extra credit opportunities as all students need to have the same opportunities.

Example: Suppose your course grade is 89.2% which is a 3.5. By doing both of the course surveys this would be rounded up to a 4.0. Note: doing only one of the surveys would only round up 0.5% so would not be enough to guarantee a 4.0.

Alternative 2.0 Fail Safe in MTH 234

Students in MTH 234 may guarantee themselves at least a 2.0 in the course via the effort score by working hard throughout the semester. A student's **effort score** is based on

- 30% – Quiz / Exam Revision Assignments
- 25% – Weekly Review Activities
- 25% – WeBWork Homework Sets
- 10% – Piazza Engagement
- 10% – Group Project

Students with an overall **effort score** of 65% or higher will guarantee a minimum of a 2.0 in the course. Of course if you have a higher grade in the course, you will receive that higher grade. The WeBWork homework, Weekly Participation Activities, and Group Project follow the same guidelines / drops / etc. as previously described in the syllabus.

Piazza Engagement

Students wishing to get full score for Piazza Engagement should post on our [class Piazza page](#) at least once each week throughout the semester. One week will be dropped when calculating this category score. [Weeks are Sunday-Saturday]

Quiz / Exam Revision Assignments

The Quiz / Exam Revision Assignments are multiple-choice assignments that cover similar content as the quizzes / exams throughout the semester. These revision assignments are available via D2L but are not timed / proctored and students may take them as many times as they would like (up until their due date specified in D2L). After the due date, any additional submissions will not be counted towards your grade. Two revision assignments will be dropped when calculating this category score.

Showing your work on Quizzes / Exams

We feel that grading written work and awarding partial credit is important. However, we must also balance this with the amount of time we have for grading and with MSU's academic integrity policies. For these reasons, we require all students to follow the rules below:

- All problems in the "Standard Problems" section will be graded based on your written work.
 - The grades on these problems are based on method. Even if you submit the correct answer to D2L, without supporting work, you will receive 0 credit.

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Activity Details

Learning Objectives

 Visible**Required: Automatic** ▼

View this topic to complete the activity

 Any condition must be metEnrolled in section: **FS23-MTH-234-LEC2 - Multivariable Calculus Section LEC2**Enrolled in section: **FS23-MTH-234-LEC3 - Multivariable Calculus Section LEC3**Enrolled in section: **FS23-MTH-234-LEC4 - Multivariable Calculus Section LEC4**Enrolled in section: **FS23-MTH-234-029 - Multivariable Calculus Section 029**Enrolled in section: **FS23-MTH-234-030 - Multivariable Calculus Section 030**Enrolled in section: **FS23-MTH-234-031 - Multivariable Calculus Section 031**Enrolled in section: **FS23-MTH-234-032 - Multivariable Calculus Section 032**Enrolled in section: **FS23-MTH-234-033 - Multivariable Calculus Section 033**

Options

Reflecting in ePortfolio is enabled

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