

Mayville State University

MATH 166: Calculus II Online (27556)

Fall 2025
4 Credit Hours

Course and Instructor Information

Instructor Name: Taylor Simon

Contact Information:

Office: Classroom Building Room 107 (enter through room 108 lobby door)

Email: taylor.simon@mayvillestate.edu

Work phone: 701-788-4726

Hours of Availability:

Monday 8:00 – 9:50am, Wednesday 11:00 – 11:50am

Available for meetings on other days/times by appointment.

Instructional Mode: Online, asynchronous

Course Dates: August 25 – December 19, 2025

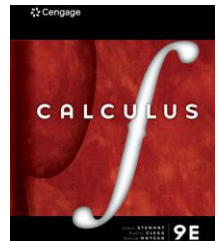
Final Exam: The week of December 15th

Zoom Link: <https://mayvillestate.zoom.us/j/86950254269?pwd=sPYmJJNZLJEtLlgGaZ8BhKJYfhZOIk.1>

Course Materials and Technologies

Required

- [MSU Technology Requirements](#)
- **Book:** *Calculus* by James Stewart, Daniel K. Clegg, Saleem Watson | 9th Edition | Copyright 2021. ISBN: 978-1-337-62418-3
- Computer with access to internet. Use of phones/computers during exams/quizzes will not be allowed.
- A graphing calculator (I will use a TI-84 Plus).



Use of Artificial Intelligence in this Course

AI tools may be used in this course if their purpose is to support your learning. The goal is always your own understanding, not just getting an answer. If you choose to use AI, treat its output as a starting point or building block—not a final product. Always aim to understand, question, and build upon what AI provides so that your own mathematical thinking continues to grow.

Course Description

This course covers applications and techniques of integration; polar equations; parametric equations; sequences and series, and power series.

Pre-/Co-requisites: MATH 165

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Course Objectives

To successfully complete this course, the learner will be expected to meet the following objectives, as aligned to Mathematics Education Program Approval Standards through North Dakota's Education Standards and Practices Board ([ND ESPB](#)):

1. Students will review integration techniques from Math 165.
2. Students will use methods such as integration by parts, trigonometric substitution, and partial fractions to evaluate definite and indefinite integrals.
3. Students will explore derivatives and integrals of exponential and logarithmic functions.
4. Students will analyze sequences and series.
5. Students will work with parametric and polar equations.
6. Students will use definite integrals to model and solve applied problems such as volumes, arc length, surface area, work, and fluid force.

Standards Alignment (Mathematics Education Program Approval Standards-ND ESPB):

- 11010.1 Mathematical Practices and Processes: The program requires the candidate to demonstrate the following: a. makes sense of problems and perseveres in solving them, b. reasons abstractly and quantitatively, c. constructs viable arguments and proofs, d. critiques the reasoning of others, e. uses mathematical models, f. attends to precision, g. identifies elements of structure, h. engages in mathematical communication

Proctor Notification

Quizzes and Tests need to be self-proctored using YuJa Verity and will not be accepted without a recording of the YuJa Verity exam proctoring session. Please read the instructions for YuJa Verity in Blackboard: Enrollment Verification Activities> Instructions for YuJa Verity.

A room scan is required before testing. Test-taker must provide a 360-degree view of their environment. You must adjust your camera so I can see you and your workspace. You need to be on camera for the duration of the proctoring session. YuJa Verity should still be recording when you scan and submit your assessment in Bb. I should see you scan and submit your work when I watch your proctored video.

Course Expectations

Instructor/Student Communication

Students are accountable for all academic communications sent to their Mayville State University email address. You should check your university email DAILY. You should also check blackboard DAILY. Please email me if you want to arrange a virtual meeting. I will do my best to respond to emails sent during the weekday within 48 hours.

Assignments and Assessments

Check-Your-Understanding Questions (CYUQ): Our book will be used for CYUQ assignments. These assignments will be posted in Blackboard. Complete these on a piece of paper. Always show your work. Scan and submit your work in Blackboard as a *single* PDF file. Instructions to scan your work are listed later in the syllabus.

Other Assignments: Other work may be assigned with instructions posted in Blackboard.

Quizzes and Tests need to be self-proctored using YuJa Verity and will not be accepted without a recorded proctoring session. Please refer to the **Proctor Notification** section above.

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Quizzes: There will be a quiz approximately every other week. Questions on each quiz will be similar to the CYUQ assignments. You can use a calculator and your notes on quizzes, so take meaningful notes! 😊 You cannot use the book, your phone, or computer. Complete the quiz on a piece of paper. You can use your phone to scan the quiz when you are done working. I should see this happen in your proctored video. Submit your handwritten quiz in Blackboard as a *single* PDF file.

Tests: There will be three cumulative tests – two throughout the semester and a final exam. Tests are cumulative to promote long-term learning. You can use a calculator on tests. You *cannot* use your notes on tests, but you can make a notecard to use on tests. I will post more information about the notecard before each test. You cannot use the book, your phone, or computer. Complete tests on a piece of paper. When you are done, you can use your phone to scan the test. Submit your handwritten test in Blackboard as a *single* PDF file.

Test 1: Available the week of September 22nd,

Test 2: Available the week of November 3rd,

Final Exam: Available the week of December 15th

Evaluation and Grading

Grading Policies

Check-Your-Understanding Questions: Below is an *example* of CYUQ for a lesson.

- p. 100: # 9, 11, 25, 26, 30, 32, 33, 36, 41, 43, 45, 57, 58
- What is the slope of a line? How can you find it?
- Write down two facts about perpendicular lines.
- What problem was the most challenging for you and why?

Problems with page numbers are from the book. Additional written questions are tied to the problems from the book.

Because you have access to the answers for the book problems, you will be required to mark these problems following the steps below. An example of marked student work is also shown below. You do not need to mark the additional written questions.

Step 1: Carefully read and complete a problem from the CYUQ in *pencil*.

Step 2: Check your answer in Blackboard.

Step 3: Using a red pen (any distinct color will work), mark your work as follows:

★ GOT IT ON THE 1ST TRY (one star): I got the problem right the first time I tried. I completely understand the problem.

★ ★ GOT IT ON THE 2ND TRY or 3rd or 4th... (two stars): I got the problem wrong on my first try. I tried the problem again with a red pen until I got it right. I understand my mistake and understand the problem now.

? STILL DON'T GET IT: I tried my best (multiple times), but my answer is still wrong. I can't find my mistake. I will get help on this problem from a teacher, tutor, friend, or classmate.

Handwritten student work showing algebra problems with red pen corrections and annotations:

- Problem 1.7 CYUQ #1, 3-6: $7a^2 - 10a^2 + 9a = -3a^2 + 9a$
- Problem 3: $(5n^3 + 3n^2 + 6) + (18n^3 + 9) = 8n^3 + 3n^2 + 15$ (initial answer) vs $23n^3 + 3n^2 + 15$ (corrected answer). Annotation: "wrote it wrong, should be a 2".
- Problem 4: $(2r+5) - (5r-6) = 2r+5-5r+6 = -3r+11$ (initial answer) vs $2r+5-5r+6 = -3r+11$ (corrected answer).
- Problem 5: $(3z^4)^2 = 3^2 z^{4 \cdot 2} = 9z^8$ (initial answer) vs $(2r+5) - (5r-6) = 2r+5-5r+6 = -3r+11$ (corrected answer).
- Problem 6: $2x^2 + 7x + 6 = (x+6)(x+1)$ (initial answer) vs $2x^2 + 2x + 3x + 6 = x(2x+1) + 3(x+2) = (x+3)(2x+2)$ (corrected answer). Annotation: "? can't figure it out... will ask for help".

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Repeat this process for all CYUQ. Try to provide detailed explanations of your mistakes.

Each CYUQ assignment will be worth two points – one for the book problems and one for the additional written questions. These problems are intended to be a safe place for you to make mistakes and learn, that is one reason why they are worth so few points.

I will review your assignment for completion and provide feedback when necessary. You will receive a zero on the assignment if it is NOT self-marked, if you are missing the additional written questions, or if there is no work shown. If an assignment is submitted late, it will be worth 50% of the grade earned. CYUQs should be submitted within a week of the due date to receive any credit.

Quizzes and Tests: Quizzes are worth more points than CYUQ, and tests are worth more points than quizzes. Total points for each quiz/test will vary. The first time a quiz/assessment is completed after the due date, the grade earned will be dropped one letter grade. If a quiz/assessment is late again, the grade earned will be dropped two letter grades and so on. If you ask for a quiz/assessment to be reopened in Blackboard (for any reason), it will automatically be worth 50% of the earned grade. If it happens again, I will not reopen the quiz/assessment. The final assessment cannot be completed after the due date.

You can expect work to be graded within a week of the due date.

Quiz/ Test Corrections: After I have graded a quiz or test, you have the option to do corrections. This is not required. When completing corrections, you need to explain in words how to do the problem correctly. If you do not provide an explanation, you will not earn points back. You can earn up to 50% of lost points back on each problem. You do not need to proctor yourself when completing corrections. The drop box to submit corrections will appear with the quiz/test and will disappear after the due date. I will not accept corrections after the due date. Instructions to complete corrections will appear in Blackboard. Please let me know if you have any questions about your corrections! I would be happy to help you. If you want to know if your explanation is detailed enough, please ask. If you need help with some problems, please ask. Also feel free to help each other by starting a class conversation in the assignment space in Blackboard. 😊

Grading Scale

A	85 – 100 %
B	70 – 84.9 %
C	50 – 69.9 %
D	35 – 49.9 %
F	0 – 34.9 %

Breakdown of Grades

This class uses a total points grading system. Your final grade is calculated by dividing the total points earned throughout the semester by the total points available.

Course Timeline/Schedule

During this course, we will work to cover topics from chapters 6, 7, 8, 10, and 11 of our required text. Due dates will be posted in blackboard. Check blackboard DAILY.

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Instructions for Scanning Work






When scanning your work, **make sure that multiple pages are scanned into a single PDF document.**

Option 1: Use a scanner. Email the scan to yourself. Download your scan. Submit your scanned document in Blackboard.








Option 2: Download the app “CamScanner” to scan your documents. After scanning all your pages in **one** document, select the document and select “share.” Then choose “Share PDF.” Share to your email. Open the email on your computer and download the PDF to your computer. Submit this **single PDF** in Blackboard. The app is free to use unless you decide to make in-app purchases.

Option 3: If you have an iPhone, iPad, or Android, you can use your device to scan documents! This is different from hitting the camera button and taking a picture.

iPhone/iPad Instructions

- Open a note or create a new note .
- Tap , then tap “Scan Documents.”
- Place your document in view of the camera on your device.
- If your device is in Auto mode, your document will be automatically scanned. If you need to manually capture a scan, tap  or one of the Volume buttons.
- Drag the corners to adjust the scan to fit the page, then tap “Keep Scan.”
- You can add additional scans to the document or tap “Save” when you are done.
- Tap the arrow next to scanned documents for a drop-down menu. .
- Select “Share”  and email the scan to yourself.
- Open the email on your computer and download the .pdf file. Submit to Blackboard.

Android Instructions

- Open Google Drive app .
- In the bottom right corner, tap “Add” ,
- Tap “Scan” or “Use Camera” .
- Take a photo of the document you would like to scan.
 - Adjust scan area: Tap “Crop” .
 - Take photo again: Tap “Re-scan current page” .
 - Scan another page: Tap “Add” .
- To save the finished document, tap “Done” .
- Open the file in Google Drive and download it to your computer. Submit to Blackboard.

Enrollment Verification

The U.S. Department of Education requires instructors of online courses to provide an activity which will validate student enrollment in this course. The only way to verify that a student has been in this course is if he, she, or they perform an action in the LMS, such as completing an assignment or taking a quiz. Logging into the LMS is **NOT** considered active course participation. Please complete the designated enrollment verification activity by the date indicated. If it is not complete your enrollment in this course will be at risk.

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Important Student Information

In the Announcements section of the Blackboard Institution Page, you can view and download the Important Student Information document for the current academic year. It includes information about:

- ✓ Land Acknowledgement Statement
- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ NetTutor - Online Tutoring Program
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Student Learning Outcomes / Essential Learning Outcomes
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)
- ✓ Diversity Statement (Title IX)

This syllabus serves as a general guide for the course. The contents are subject to change at the instructor's discretion. Students will be notified of any modifications through class announcements/email.