Course Syllabus

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TMath 126 Course Syllabus

- Fall Term 2025 (SLN 22803/22804)
- Instructor: Ruth Vanderpool
  - Best method to contact: Class (when in-person) or Canvas Discussions (when remote)
  - Secondary contact method: email rvanderp@uw.edu (mailto:rvanderp@u.washington.edu)
  - Drop-In Office Hours:
    - Times:
      - Tuesdays 3:30-4:00pm
      - Wednesdays 11:30-12:30am
      - Thursdays 12:30-1:30 and 3:30-4:00pm &
      - by request
    - In person @ Teaching & Learning Center (TLC) 2nd floor of Snoqualmie building
    - Remote if requested at: https://washington.zoom.us/my/rvanderp (https://washington.zoom.us/my/rvanderp)

Class Time:

- Tuesday & Thursday 8:00-10:00am & 10:10am-12:10pm
- Location:
  - In person: Joy 114
  - If remote: Zoom meeting linked on Canvas Calendar.

Required Items:

- WebAssign (online homework system) which can provide access to an eTextbook. (More details about the required items, including textbook ISBN #'s are posted here (https://docs.google.com/document/d/1zx3S8LkfWJxjRhZGQfBQrz7bsnZqnSw2kV4ll0lyCzk/edit) .)
- system meeting the technology requirements posted in the Technology Info Module.
- (optional) non-internet accessing calculators or Desmos Test Mode on smart devices

Course Description:

TMATH 126 is the third quarter in the calculus sequence. Three weeks on Taylor polynomials and Taylor series, two weeks on vector geometry in three dimensions, and four weeks on multivariable differential calculus (double integrals in Cartesian coordinates).

Course Objectives:

By the end of the course students should be able to:

- clearly define sequences and series to both scientific and non-scientific audiences
- construct a Taylor approximation and use it to solve real world problems
- describe vectors, lines, & simple surfaces mathematically in three-dimensional space
- compute and interpret the meaning of the dot and cross product
- apply multivariable calculus techniques to find tangent planes, linear approximations, local extrema, and volumes bounded by multivariable functions.

Opportunities for Mastery:

- WebAssign allows multiple attempts for full credit.

- WebAssign assignments are easily extended up until the day before exams so that you can improve your score.
- All WrittenHW's can be turned in a second time to improve score.
- Discussion board responses improve WrittenHW or WebAssign averages.
- Two-stage quiz structure allows for improving quiz scores immediately.
- Group presentations opportunities can add up to 4% for your final exam.

Expectations for the Instructor:

- Communicate with you through Canvas (discussion boards, announcements, posted grades), emails, online homework systems, and in-person during social hours & class.
- Provide a consistent course structure with regular feedback (before you are even quizzed on the material!).
- Foster a space and environment for students to make mistakes & revise their thinking, get confused, speak, to be heard, and to grow as we learn about mathematics!

Expectations for the Student:

- Pay attention to announcements made and develop a processes to turn in work that meets the class's requirements.
- Be thoughtful and follow the communications/netiquette expectations so that we foster a supportive environment when interacting with each other.
- Be prepared for class and learn some math!

Required Items:

- Textbook: Calculus: Early Transcendentals (9th edition) by James Stewart, Daniel Clegg, and Saleem Watson. Cengage Learning, 2020
- WebAssign access (online homework system), and a system meeting the technology requirements posted in the Technology Info Module.
- (optional) Calculators: Either scientific or graphing are welcome. Although no internet is allowed in the first stage of the quizzes or exams, you are welcome to use Desmos Test Mode on a smart device if you have one.

Tentative Schedule:

Upcoming due dates for assignments and exams are posted in the "Coming Up" section on the right side of your screen immediately after you log into Canvas. The due dates for the entire course are listed at the bottom of this Syllabus and can also be found on the Calendar link (in the purple menu on the left).

Note that the the schedule for the next week is also posted and discussed at the start of each class.

Evaluation/Grading:

Specific weights for homework and exams are posted **here (https://www.google.com/url?q=https://docs.google.com/document/d/1W2o8YwMfAdYbkc62qoLFBtV8UfxxPC6BEfUvRpZyA-k/edit&sa=D&ust=1585007673671000)** .

Participation:

Posting attempts/work/answers for problems from activity sheets in the classroom count towards your participation marks. Opportunities for these are given most class days. You need to collect 5 of these throughout the term to get 100% for participation. Note, your contributions do not need to be correct or complete! Generally we learn more from attempts and mistakes than from correct work so please contribute whatever math thoughts you have.

Homework Policies:

Several homework assignments are due every week. One for each section covered in class are posted through the online homework system WebAssign **(https://www.google.com/url?**

q=https://www.webassign.net/login.html&sa=D&ust=1585007673673000) and one is handwritten and turned in on Wednesdays.

- WebHW:

One homework assignments will be posted after each section that is covered each week on WebAssign. The assignments will be due either at 8pm on Wednesdays or 8pm on Fridays. All assignments are posted on the class calendar.

Given that the online homework is mostly intended to allow you to practice new concepts, you will have multiple submissions allowed for each problem. Generally you are limited to 100 submissions per problem, but I suggest you make use of the resources listed on the Math Help section of the Syllabus after four failed attempts. In particular, the **Canvas WebHW Questions (extra credit) Discussion Board** (https://canvas.uw.edu/courses/1835182/discussion_topics/9934834) is a great place to connect with your peers about the WebHW and get some help. Notice that if you answer a question that is posted, you can earn an extra credit marks towards your overall WebHW average (up to 100% for the category).

Extensions for WebHW are readily granted up until 8pm the night before the next exam. The WebHW closes at this point to guarantee you study for your exam (which is worth a lot in the course!)

To access WebAssign follow the steps below:

- Follow: **https://www.getenrolled.com/?courseKey=uwb.wa44506624** (https://www.getenrolled.com/?courseKey=uwb.wa44506624)
  - Note that uwb.wa 4450 6626 _should_ be entered in the textbox.
- Select "Access Course"
- If you already have a WebAssign account, type in your login information, if not, create an account and log in.
- If you cannot log into WebAssign, email me as soon as possible!! You will not be granted extensions if you cite accessibility issues in the few hours before an assignment is due.

Note that sometimes WebAssign randomizes the numbers so that individuals may have slightly different problems. For example, you may have trouble with WebHW1 #4 and see that there is already a post with the first line "WebHW1 #4", but some of the numbers are different. You should still read and take part in the discussion since it is likely that the same techniques will apply in your particular problem as well.

- WrittenHW:

Handwritten assignments will also be assigned to give you practice writing math before performing on a quiz and are due the week after the material was covered on Wednesdays at 8pm. Assignments turned in during class on Tuesday will be marked and returned at the start of class on Thursday. Assignments turned in through Canvas may not be marked before the quiz. This policy is mostly the result of the difficulties I have marking assignments on Canvas

You are allowed and encouraged to work together on homework. In particular, the Canvas **WrittenHW Questions (extra credit) Discussion Board** (https://canvas.uw.edu/courses/1835182/discussion_topics/9934835) is a great place to connect with your peers about the WrittenHW and get some help. Notice that if you answer a question that is posted, you can earn an extra credit mark towards your overall WrittenHW average (up to 100% for the category).

Each student is expected to turn in their own work. Your homework is expected to be written up neatly, clearly, and completely. Please make your final answer and its required supporting work, easy to find and identify. No partial credit is given on individual problems during the initial marking so make your final answer and its required supporting work, easy to find and identify. No extensions are given for written homework.

REWRITE POLICY: After receiving your corrected homework you are given one week to turn in a rewrite that can earn full marks. You are responsible for finding and correcting your mistakes but consider consulting with your peers. I am available to help answer questions during social hours, but no additional class time will be dedicated to that homework assignment. Rewrites must be clearly marked as such and stapled on top of the original work with the section number clearly visible.

If you have to submit a WrittenHW through Canvas, the recommended procedure is:

- write your homework solutions on normal paper clearly, with supporting work, and so that they are easily identifiable!
- take a photo of your work with a digital camera
- convert the (possibly) multiple photos into one PDF with an application (such as "Evernote Scannable", "CamScanner", "Scannable" or another free application!)
- upload the one PDF file to Canvas.

Quiz Policy:

Quizzes are administered in a two-stage process on Thursdays during class after the homework question period.

In the first stage, students have 15 minutes to take the quiz without notes, books, internet resources, or collaboration.

The second stage gives students another 15 minutes to take the (same!) quiz, but now with open notes, open book, and collaboration with a student group. After 15 minutes, one copy of the completed quiz is turned in.

The marks recorded for your quiz will be the higher of the two options:

1. the score from the individual stage-one of the quiz, or
2. the average of your individual stage-one quiz and the group completed stage-two quiz.

If the class (or instructor) needs to switch the class to a remote setting, there will be two additional 15 minute sessions between the stages so that student can convert their work into pdf's and turn them into Canvas. Group work will still occur through breakout rooms.

Exam Policy:

The dates of the exams are **Thursday October 16th** & **Thursday November 13th.** Exams are to be done individually within the assigned class time while proctored either in the classroom (or monitored through zoom if there is need and it is prearranged). Explicitly this means notes, books, internet tools and collaboration are not allowed for these exams. The two-hour comprehensive proctored exam final exam will be

- **8:00-10:00am Tuesday December 9th for the 8am class and**
- **10:10-12:10 Thursday December 11 for the 10:10am class.**

Make-up tests will only be given for absences deemed justifiable by the instructor (e.g., illness, family emergency), and may be considerably more difficult than the original test.

Communications/Netiquette:

This class is scheduled to be in-person but it is set up with some accommodations for folks who find that they cannot attend class. That means we have etiquette *and* netiquette guidelines!

Questions about the Class:

- When the instructor is not in the same room, if questions arise, please remember to check the following *before* emailing your instructor:

1. Canvas Home page: this lists different resources available depending on the type of question
2. Course Syllabus: introduces policies and expectations of the class organized by topic
3. Modules: Identifies what work should be done before class & provides the activity for the day.
4. Conversations in the appropriate Discussion Board: theme specific boards have been set up to help you find what you are looking for

- This policy will help you in potentially identifying answers before I can get back to you and it also helps me from answering similar questions or concerns multiple times. In fact, most emails sent to me will be posted on the FAQ: Technical or Course Related Canvas Discussion(with their answers) and then I'll direct you to look there for your answer.
- If your question is not related to the course material (content, deadlines, assignment requirements), but is of a personal nature (grade received, illness, missing your deadlines, struggles), please email me directly.

Social Expectations:

You are expected to work regularly with others in this class and thus need to make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.

Netiquette:

- Students are entitled to receive instruction free from interference by other members of the class. If a student is disruptive, an instructor may ask the student to stop the disruptive behavior and warn the student that such disruptive behavior can result in withdrawal from the course. The instructor may withdraw a student from a course when the student's behavior disrupts the educational process.
- Appropriate online behavior is defined by the instructor. Course discussion messages should remain focused on the assigned discussion topics. Students must maintain a cordial atmosphere and use tact/professionalism in expressing differences of opinion.
- Inappropriate discussion board messages may be deleted if the instructor feels it is necessary. Students will be notified privately that their posting was inappropriate.

Email Policy:

I will respond to emails just as soon as I am able but I would encourage you to first post your questions to the pinned discussion boards as often times a peer will be able to help quicker than I! The University email policy used during normal operations is posted at: (https://www.tacoma.uw.edu/it/uw-tacoma-email-policy (https://www.tacoma.uw.edu/it/uw-tacoma-email-policy))

Disclaimer:

While I have attempted to make this syllabus as complete as possible, adjustments will be made throughout the course. Announcements will be made during class and it is the responsibility of the student to keep updated if class is missed.

Academic Honesty:

Review Expectations, Policies, Consequences: (https://www.tacoma.uw.edu/registrar/academic-policies (https://www.tacoma.uw.edu/registrar/academic-policies))

Getting Help: (https://canvas.uw.edu/courses/1835182/pages/getting-help-126)

(https://www.google.com/url?q=https://docs.google.com/document/d/1h-9ks1Rj1AswJswn4qgjn-veRxVH9WkAfS6Cu89JCHY/edit&sa=D&ust=1585007673675000) Many resources exist, are available, and are intended to help you with math, technology, and personal issues and questions. A few of the most helpful are listed: Getting Help (https://canvas.uw.edu/courses/1835182/pages/getting-help-126) (https://canvas.uw.edu/courses/1484552/pages/getting-help)

Tips for Success: (https://canvas.uw.edu/courses/1835182/pages/tips-for-success-126)

A few, class-specific things to do that will help you get the most out of this class.

General Policies: (https://canvas.uw.edu/courses/1835182/pages/general-policies-125)

(https://www.google.com/url?q=https://docs.google.com/document/d/1FjxC22UgjVM7JT_2e6DHKSpk5ZWdlEVUU34AJlhQMhY/edit&sa=D&ust=15850076736770(Campus-wide and class policies regarding inclement weather and emergency procedures are posted here

(https://www.tacoma.uw.edu/faculty-assembly/required-suggested-syllabi-service-statements) and here (https://www.tacoma.uw.edu/digital-learning/e-syllabus).

Course Summary:

Date	Details	Due
Thu Oct 17, 2024	Exam 1 (https://canvas.uw.edu/courses/1835182/assignments/10652396)	due by 10:10am
Thu Sep 25, 2025	TMATH 126 B Au 24: Calculus With Analytic Geometry III (https://canvas.uw.edu/calendar?event_id=4474432&include_contexts=course_1835182)	10am to 12pm
	Quiz 0 (https://canvas.uw.edu/courses/1835182/assignments/10652401)	due by 12:10pm
Fri Sep 26, 2025	WebHWorientation (https://canvas.uw.edu/courses/1835182/assignments/10652436)	due by 8pm
Tue Sep 30, 2025	TMATH 126 B Au 24: Calculus With Analytic Geometry III (https://canvas.uw.edu/calendar?event_id=4474431&include_contexts=course_1835182)	10am to 12pm
Wed Oct 1, 2025	WebHW12.1 (https://canvas.uw.edu/courses/1835182/assignments/10652419)	due by 8pm
	WebHW12.2 (https://canvas.uw.edu/courses/1835182/assignments/10652420)	due by 8pm
	WrittenHW1 (https://canvas.uw.edu/courses/1835182/assignments/10652411)	due by 8pm
Thu Oct 2, 2025	TMATH 126 B Au 24: Calculus With Analytic Geometry III (https://canvas.uw.edu/calendar?event_id=4474850&include_contexts=course_1835182)	10am to 12pm
Fri Oct 3, 2025	WebHW12.3 (https://canvas.uw.edu/courses/1835182/assignments/10652421)	due by 8pm
	WebHW12.4 (https://canvas.uw.edu/courses/1835182/assignments/10652422)	due by 8pm
Tue Oct 7, 2025	TMATH 126 B Au 24: Calculus With Analytic Geometry III (https://canvas.uw.edu/calendar?event_id=4474421&include_contexts=course_1835182)	10am to 12pm
Wed Oct 8, 2025	WebHW12.5 (https://canvas.uw.edu/courses/1835182/assignments/10652423)	due by 8pm
	WrittenHW2 (https://canvas.uw.edu/courses/1835182/assignments/10652405)	due by 8pm