Course Syllabus

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TMath 125 Course Syllabus

- Winter Term 2021 (SLN 21376/21377)
- 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: Monday & Wednesdays 11:00-Noon
    - In person whenever class is in-person: @ Teaching & Learning Center (TLC) 2nd floor of Snoqualmie building
    - Remote whenever class is remote: https://washington.zoom.us/my/rvanderp (https://washington.zoom.us/my/rvanderp)
- Embedded Tutor: Shori Yu
  - Best Method to Contact: https://uwttlc.mywconline.com/ (https://uwttlc.mywconline.com/)
  - Workshop: Wednesdays 12-1pm at https://washington.zoom.us/j/5902876476 (https://washington.zoom.us/j/5902876476) (remote until Jan 28th)
  - Drop-In Hours: Monday & Wednesdays 9-11:30am

Class Time:

- Monday & Wednesday 1:30-3:30pm
- Location:
  - In person: Joy 106
  - If remote: Zoom meeting ID: 957 2854 9213 with UW authentication required and linked on Canvas Calendar.

Course Description:

TMATH 125 is a calculus course studying the mathematics of areas and volumes and its applications. Topics include areas (definite integrals), the Fundamental Theorem(s) of Calculus, anti-derivatives, and techniques for finding functions that are dependent on their own rates of change (differential equations).

Course Objectives:

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

- apply precalculus & differential calculus concepts in the calculus setting to solve problems
- use finite sums to approximate areas and integrals
- know the definition of and be able to find simple antiderivatives
- utilize the Fundamental Theorem of Calculus to compute integrals
- compute definite and indefinite integrals using the substitution rule, integration by parts, and trigonometry
- apply integral calculus to compute area between curves and the volume of solids,
- use limits to compute improper integrals
- apply techniques of integration to physics, biology, or chemistry applications
- set up and solve basic differential equations with applications to biology & chemistry.

Opportunities for Mastery:

- OnlineHW allow multiple attempts for full credit.
- OnlineHW assignments are easily extended up until the day before exams so that you can improve your score.
- Discussion board responses improve WrittenHW or MyMathLabHW averages.

- Two-stage quiz structure allows for improving quiz scores immediately.
- All WrittenHW's can be submitted for a regrade.
- Group presentations before each exam can add up to 4% to your exam scores.

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. Note that class materials are generally provided a **week** in advance so that students can prepare and plan.
- 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.
- 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).

- If the class is remote, details about topics to learn, material to review, and projects that need work are posted in Daily Modules (whose link is always available on the left when in the TMath 125 Canvas course) and summarized in the "Objectives & Tasks" page.
- If the class is in-person the next week's schedule is posted on the board and discussed at the start of each class.

There is a general structure for deadlines in this course that is summarized in the following table. More details are provided in the Homework and Quiz section of the syllabus.

Materials posted online	*7 days*	material introduced in class HW assigned	*1 day*	answer questions	*following week*	HW Due (Mondays)	Marked HW returned	Quiz on material (Wednesdays)

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) .

Homework Policies:

Three homework assignments are due every week. Two 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 Mondays.

- WebHW:

Two homework assignments will be posted every week on WebAssign. The two assignments will be due at 8pm on Tuesdays and Thursdays. 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** 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.

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:

- Browse to WebAssign through the course website or manually type in the address: **http://webassign.net/login.html** (http://webassign.net/login.html)
- Click on “Enroll with a Class Key” button in the upper right.
- Enter “uwt 7168 8503” and hit Submit.
- 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 Mondays at 8pm. Assignments should be turned in physically and submissions through Canvas should be used as a last resort. This policy is mostly the result of the extreme 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** 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.

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

After receiving your corrected homework you are given one week to turn in a rewrite that can earn full marks. Answers are marked only as right or wrong so you are responsible for finding and correcting your mistakes. I am available to help answer questions during Drop In 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 Wednesdays during class.

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

The second stage again gives students 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 **Wednesday January 26th** & **Wednesday February16th.** 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, bomoks, internet tools and collaboration are not allowed for these exams. The final exam is **Monday March 14th** and will be a two-hour comprehensive proctored exam.

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.

If remote: a device that can connect video through the class zoom meeting must be secured for the exam dates. Many computers and smart phones suffice but also note that UWT has laptops that are available for an extended checkout period. During the exam the camera connected to zoom will be pointed at your hands so that your progress can be monitored. If you use Desmos TestMode you will need to make sure the video connection is made on a separate device than the one running Desmos TestMode.

If remote, the exams will be provided in a pdf format through email and Canvas and can be printed (if a printer is convenient) or remain on the screen of an internet accessing device while you write your answers on a separate sheet. Submission through Canvas will have the same protocol as WrittenHW.

Communications/Netiquette:

This class is scheduled to be in-person but it is set up to accommodate anyone who finds 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 (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:

My availability this quarter is still severely limited due to the consequences of Covid19 related closures. 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://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**

Tips for Success:

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

General Policies:

(https://www.google.com/url?q=https://docs.google.com/document/d/1FjxC22UgjVM7JT_2e6DHKSpk5ZWdlEVUU34AJlhQMhY/edit&sa=D&ust=158500767367700
Campus-wide and class policies regarding inclement weather and emergency procedures are posted here.

Course Summary:

Date	Details	Due
Mon Jan 3, 2022	Shori's Help Hours (https://canvas.uw.edu/calendar?event_id=2508030&include_contexts=course_1523968)	9am to 11:30am
	Ruth's Drop In Hours (https://canvas.uw.edu/calendar?event_id=2508130&include_contexts=course_1523968)	11am to 12:01pm
	TMATH 125 A Wi 22: Calculus With Analytic Geometry II (https://canvas.uw.edu/calendar?event_id=2472418&include_contexts=course_1523968)	1:30pm to 3:45pm
Tue Jan 4, 2022	WebHW0 (https://canvas.uw.edu/calendar?event_id=2482458&include_contexts=course_1523968)	8pm
Wed Jan 5, 2022	Shori's Help Hours (https://canvas.uw.edu/calendar?event_id=2508087&include_contexts=course_1523968)	9am to 11:30am
	Ruth's Drop In Hours (https://canvas.uw.edu/calendar?event_id=2508179&include_contexts=course_1523968)	11am to 12pm
	TMATH 125 A Wi 22: Calculus With Analytic Geometry II (https://canvas.uw.edu/calendar?event_id=2472419&include_contexts=course_1523968)	1:30pm to 3:45pm
	Quiz 0 (https://canvas.uw.edu/courses/1523968/assignments/7011683)	due by 2:30pm
Thu Jan 6, 2022	WebHW1 (https://canvas.uw.edu/calendar?event_id=2482459&include_contexts=course_1523968)	8pm
Mon Jan 10, 2022	Shori's Help Hours (https://canvas.uw.edu/calendar?event_id=2508031&include_contexts=course_1523968)	9am to 11:30am