Course Syllabus

Jump to Today ✎ Edit

TMath 124

Winter Term 2021 (SLN 21336-21341)

Instructor: Ruth Vanderpool contact: email rvanderp@uw.edu

Embedded Tutor: Lauryn contact lh63@uw.edu

Best method to contact: Canvas Discussions

Drop-In Hours: Wednesday 3:30-4:30pm & Thursday 1:00-2:00pm @ GatherTown

https://gather.town/app/ykwswvoAdqRF73Tr/WPH@UWT

(https://gather.town/app/ykwswvoAdqRF73Tr/WPH@UWT)

Class Time:

- Tuesday & Thursday 3:40-5:40pm or 5:50-7:50pm
- Zoom links on Canvas Calendar

Workshops!

- Wednesday 5-6pm, Zoom links on Canvas Calendar
- Sunday, 1-2pm. Zoom links on Canvas Calendar

Course Description:

TMath 124 is a calculus course studying the mathematics of motion and change and its applications. Topics include advanced functions and their limits, maximums and minimums, rates of change (derivatives), and areas (integrals).

Prerequisites:

Prerequisite Content Knowledge: Mastery of functions, its notation, and rudimentary examples including polynomial, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Mastery can be verified by one of the following:

- 2.0 in TMath 120 or TMath 116,
- Score of 68% on MPT-A placement test,

- Score of 276 on the ACC-AAF,
- Score of 75% on MATHEC Placement Test, or
- Score of 2 on AP test

Prerequisite Technical Knowledge: General familiarity with computers, email systems, accessing the internet, installing software, and manipulating/digitizing files. Specific requirements for this class are posted in the **Computer Requirements** (https://docs.google.com/document/d/14zc6MFDMUQJkLa_USNusYD6VfoThLsC0Zca5SjucebU/edit) page of the Technology Module.

Course Objectives (https://docs.google.com/document/d/1ilUjse9JCVzJT0rzaS0CQS8rLFr0ZaqNuuijZZb5nHI/edit) (https://docs.google.com/document/d/1ilUjse9JCVzJT0rzaS0CQS8rLFr0ZaqNuuijZZb5nHI/edit) are listed **here.** (https://docs.google.com/document/d/1ilUjse9JCVzJT0rzaS0CQS8rLFr0ZaqNuuijZZb5nHI/edit)

Required Items: (https://docs.google.com/document/d/1zx3S8LkfWJxjRhZGQfBQrz7bsnZqnSw2kV4lI0lyCzk/edit)

Textbook, WebAssign access (online homework system), and a system meeting the technology requirements posted in the Technology Info Module. (More details about the required items, including textbook ISBN #'s are posted **here** (https://docs.google.com/document/d/1zx3S8LkfWJxjRhZGQfBQrz7bsnZqnSw2kV4lI0lyCzk/edit) .)

Tentative Schedule: (https://docs.google.com/document/d/1Ba4GyW6OcJjOQ9jk4aM8DnLd0cghpolS_Db8ixp8ePs/edit)

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 (at the top of this page). Details about topics to learn, material to review, and projects that need work are posted in weekly Modules (whose link is always available on the left when in the TMath 124 Canvas course) and summarized in the "Objectives & Tasks" page. A tentative weekly schedule is posted **here.** (https://docs.google.com/document/d/1Ba4GyW6OcJjOQ9jk4aM8DnLd0cghpolS_Db8ixp8ePs/edit)

Evaluation/Grading: (https://docs.google.com/document/d/1W2o8YwMfAdYbkc62qoLFBtV8UfxxPC6BEfUvRpZyA-k/edit)

Specific weights for homework and exams are posted **here (https://docs.google.com/document/d/1W2o8YwMfAdYbkc62qoLFBtV8UfxxPC6BEfUvRpZyA-k/edit)** . Generally, Web-based homework will be recorded inside WebAssign and all other marks be recorded in Canvas. The two systems will not synch with each other which means Canvas **cannot** estimate your grade automatically! Note that there is an assignment inside of Canvas that you can modify from within the Gradepage to have Canvas compute your grade.

Opportunities for Mastery:

- Five Participation points can be missed without impacting your course marks.
- WebAssign & WrittenHW allow multiple attempts for full credit.
- WebAssign assignments are easily extended up until the day before exams so that you can improve your score.
- Discussion boards in Canvas responses improve WrittenHW or WebAssign averages.
- Two-stage quiz structure allows for improving quiz scores immediately.
- Group presentations before each exam can add up to 4% to your exam scores.

-Communication & Netiquette: (https://docs.google.com/document/d/1rwcQya8ETAHpm2RhsYPGRnJpU3veqRa-3A0M0GJdPZg/edit?usp=sharing) (https://docs.google.com/document/d/1rwcQya8ETAHpm2RhsYPGRnJpU3veqRa-3A0M0GJdPZg/edit?usp=sharing)

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.

General communications policies and netiquette are posted **here. (https://docs.google.com/document/d/1rwcQya8ETAHpm2RhsYPGRnJpU3veqRa-3A0M0GJdPZg/edit?usp=sharing)**

Participation:

Concept checks focused on materials covered in the required videos are due **prior** to the synchronous class meetings. Points will be given if each problem is attempted and questions will help drive discussion in class. Activity sheets provided in class may also be collected, marked for completion, and

counted towards your participation marks. You may miss up to 6 (increased by one because of a delayed posting for Week 2's concept checks) of these assignments without impacting your grade.

Homework Policies:

Three homework assignments are due every week. Two are posted through the online homework system **WebAssign (https://www.webassign.net/login.html)** and one is handwritten and electronically submitted through Canvas.

- **Online Homework: (https://docs.google.com/document/d/1Dd0yhp8fofSFEwavKF8lEHsMknc0-ijhskWl4lx6s4M/edit)** Two homework assignments will be posted every week on WebAssign. One assignment will be due at 8pm on Wednesday and the second will be due at 8pm Friday. All assignments for the week will be announced in the "Objectives & Tasks" page of the respective Module and posted on the class calendar. (More details about access, help, and policies for online homework are posted **here (https://docs.google.com/document/d/1Dd0yhp8fofSFEwavKF8lEHsMknc0-ijhskWl4lx6s4M/edit)** .)
- **Written Homework (https://docs.google.com/document/d/1zRnNlYc5c1nkRPxZcLANnG-BPHw0wZMYo24ZCcB4bFk/edit)** : Handwritten assignments will also be assigned weekly and are due at 8pm on Fridays. You have one chance to regain lost points on homework by completing a rewrite that is due a week from the homework's return and will only be accepted if you indicate that you worked with someone else in the class on the top. (More details about written homework scheduling, formatting, and grading are posted **here (https://docs.google.com/document/d/1zRnNlYc5c1nkRPxZcLANnG-BPHw0wZMYo24ZCcB4bFk/edit)** .)

-Quiz Policies:

Quizzes are administered in a two-stage process that begins once opening up a Quiz Assignment. They are provided Thursdays during class & remain open until 8pm Friday.

In the first stage, students have 15 minutes to take the quiz without notes, books, internet resources, or collaboration. Non-internet accessing calculators are allowed. After 15 minutes, students are given 15 additional minutes to convert their work to a pdf and upload their answers to Canvas.

The second stage again gives students 15 minutes to take the quiz, but now with open notes, open book, and collaboration with an assigned student group. If you take the quiz during class, your group will be given a breakout room for this second stage in which you can collaborate freely with each other. After

15 minutes, one (pdf) (and only one!) copy of the completed quiz is uploaded by one group member into Canvas.

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

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

-Online Exam Policies:

The dates of the exams are **Wednesday January 28th** & **Wednesday February 18th**. Exams are to be done individually and synchronously within the assigned class time while proctored. Explicitly this means notes, books, internet tools and collaboration are not allowed for these exams. Non-internet accessing calculators are allowed. The final exam is will be a two-hour comprehensive online proctored exam either on March 16th 5:50-7:50pm or March 18th 3:40-5:40pm. If registered for an asynchronous class you must indicate by the end of the first week what times you will attend for each 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 you must be absent for an exam, I will only give a make-up exam if notified in advance.

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 still 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.

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.

Getting Help: (https://docs.google.com/document/d/1h-9ks1Rj1AswJswn4qgjn-veRxVH9WkAfS6Cu89JCHY/edit) 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 **here (https://docs.google.com/document/d/1h-9ks1Rj1AswJswn4qgjn-veRxVH9WkAfS6Cu89JCHY/edit)** .

Tips for Success: (https://docs.google.com/document/d/1RNOFp6Aeg6pb5v23hWejiMhxKTltPxw06uYlYSjZB5I/edit) A few,

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

General Policies:

(https://docs.google.com/document/d/1FjxC22UgjVM7JT_2e6DHKSpk5ZWdlEVUU34AJlhQMhY/edit)

Campus-wide and class policies regarding inclement weather and emergency procedures are posted **here (https://uw.instructure.com/courses/603479/wiki/general-policies)** .

Course Summary:

Date	Details	Due
Mon Jan 4, 2021	**Welcome to Calculus 1!** (https://canvas.uw.edu/calendar?event_id=1846744&include_contexts=course_1441676)	12am
Tue Jan 5, 2021	**3:30pm Calculus With Analytic Geometry I** (https://canvas.uw.edu/calendar?event_id=1892027&include_contexts=course_1441676)	3:30pm to 5:45pm
	5:50pm Calculus With Analytic Geometry I (https://canvas.uw.edu/calendar?event_id=1872609&include_contexts=course_1441676)	5:45pm to 8pm
Wed Jan 6, 2021	**Drop-In Hour** (https://canvas.uw.edu/calendar?event_id=1846711&include_contexts=course_1441676)	3:30pm to 4:30pm
	Workshop with embedded tutor (https://canvas.uw.edu/calendar?event_id=1897738&include_contexts=course_1441676)	5pm to 6:15pm