



Walters State Community College Course Syllabus

Course Information

Course Number and Name: MATH 1830 Applied Calculus

Section ID: 81186.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

Course Format: WEB - Web Classes

Catalog Course Description: A one-semester course in the differential and integral calculus of algebraic, exponential, and logarithmic functions with applications. Prerequisite(s): MATH 1630 or 1710, ACT Score of 24, or permission of the Dean of Mathematics. **F, S, Su**

General Education Course Designation: General Education Course

Meeting Details: TBD

Course Drop Deadline: October 27, 2023

Instructor Information

Name: Tina Williamson

Role: Adjunct Math Professor

Office Location: Cosby High School

Office Hours: 3:15-3:45 PM M-R

Office Phone: 423-487-5602

Email: Tina.Williamson@ws.edu

Supervisor Name: Chris Knight, Dean of the Mathematics Division

Supervisor Phone: 423-585-6579

Secretary Name: Tammy Holt, Executive Secretary

Secretary Phone: 423-585-6864

Required Textbook(s) and Materials

WebAssign program for all graded material

Additional Information

Also required are a TI-84 or 83-Plus calculator; Internet access via Teams, operating camera and microphone.

Student Learning Outcomes/Objectives

- **Course Outcomes**

1. Find the limit of a function numerically, graphically, and symbolically.
2. Find and interpret average rates of change and slopes of secant lines.
3. Find and interpret instantaneous rates of change and slopes of tangent lines using a derivative.
4. Use the limit definition of derivative to find derivatives.
5. Find derivatives using derivative rules.
6. Demonstrate an understanding of the relationship between the behavior of a function and its derivatives.
7. Solve optimization problems.
8. Approximate area by using rectangles.
9. Find antiderivatives using antiderivative rules.
10. Apply the Fundamental Theorem of Calculus to evaluate definite integrals.
11. Use concepts of calculus and technology to investigate applied problems.

Instructional Approach and Methods

- **ALL STUDENTS MUST CONTACT THE INSTRUCTOR ON eLEARN BY WEDNESDAY OF THE FIRST SEMESTER WEEK TO BE COUNTED AS ENROLLED IN THE COURSE.**
- PowerPoint course lectures are posted in eLEARN. They correspond to posted notes but do not include all problems worked. All course work can be augmented using the WebAssign help

links and work with the instructor. **It is the students responsibility to secure the appropriate technology for testing: a computer, internet access, web camera, and microphone.**

- All tests will be monitored through the MS Teams program during scheduled times **or individually scheduled times with the instructor.** The Teams program has an eLEARN link; instructions for using it are given online in eLEARN. There are office hours on the Sevier county campus as well as online through Teams as shown on the first page. Individual or group work can be done during office hours.

Assessment, Evaluation and Testing Procedures

- **WebAssign exercises will be due by Friday evening each week of a test which covers them.** They include homework assignments and quizzes. Any extensions for these categories will be addressed individually with students and may include reduced credit.
- All tests and the final exam will be taken in MS Teams during scheduled test times.* These must be monitored by the instructor. * **If a student needs a different time to test, a request must be sent to the instructor at least a week before the test stating the reason for the adjustment. If the request is approved, the test must be scheduled sometime during the same week as the original test with the instructor. Remember that the instructor teaches multiple classes and the student must work with the instructor's schedule. The test must be monitored.***
- **Course Grading:**
 - There are three online tests in this course. Your Test average will count as 60% of your course grade.
 - The Homework average in WebAssign will count as 20% of your course grade.
 - The Quiz average in WebAssign will count as 10% of your course grade.
 - The Final Exam will count as 10% of the course grade.
- Any missed test grade of zero will be replaced by the final exam grade. If all 3 tests are taken and the final exam grade is better than the lowest test grade, the final exam score will be used as a replacement score for the lowest test grade. If more than one test is missed, the first test grade will be replaced by the final exam and the additional missed test grades will be a zero.

Grading Scale

A	90% - 100%
B	80% - 89%
C	70% - 79%

D	60% - 69%
F	Below 60%

Assignments

Assignments for the course include homework and quizzes in the required WebAssign program. Instructions for purchasing and using WebAssign are given in eLEARN News and Content.

Online/Web-Enhanced Course Supplementary Information

Numerous YouTube sessions for course topics can be found in the Mathematics Division link on the Walters State website. These can be accessed using <http://ws.edu/academics/mathematics/learning-lab>, and selecting "Visit Beth Dixon's YouTube Channel".

The required WebAssign program also has helpful instructions for problem solving.

Designated office time hours are used for student tutoring by the instructor.

Academic Honesty

Faculty expect all students to refrain from acts of academic misconduct including but not limited to:

1. Plagiarism - refers to using another person's ideas or writing without giving proper credit to the original source. Indulging in this type of conduct will subject the student to disciplinary sanctions, which may be imposed through the regular institutional procedures of Walters State Community College as outlined in the Student Handbook. Plagiarism will result in a grade of "0" for the paper/exam/presentation. Student Conduct and Disciplinary Sanctions contained in the college Catalog/Student Handbook apply (see policy 04:18:02 Disciplinary Sanctions).

Plagiarism includes, but is not limited to the following:

- a. Using cut/paste tool from original document with no references given.
 - b. Copying another student's work and submitting it as one's own.
 - c. Forging or otherwise altering signatures.
 - d. Giving or falsifying academic documents or materials.
2. Cheating - construed as attempting to deceive or mislead which includes, but is not limited to the following:
 - a. Utilizing old tests, projects, notes or written papers.
 - b. Providing unauthorized information to a fellow student about exam content.

- c. Receiving unauthorized aid from any source with quizzes, examinations, or other assignments.
 - d. Seeking information in an unacceptable manner during/preceding an exam or other assigned work (cheat sheet, verbal exchange, looking at another person's paper or electronic device, utilizing headphones, using textbook when the test/quiz is not an open book test/quiz, using textbook test bank etc.).
 - e. Consulting with a classmate or others when taking a computerized test.
 - f. Disregarding other specific policies and procedures outlined for a particular class.
 - g. Utilizing unapproved technology/electronic equipment during testing (i.e.: mobile devices such as cell phones, smart devices, or tablets, etc.).
 - h. Using the same Internet Protocol network address (IP address) as another student for testing without approval from the course faculty.
3. The use of any generative artificial intelligence (AI) tool, such as OpenAI's ChatGPT, Google's Bard, or any other pre-trained language model (commonly referred to as "chatbot"), must be cited for any assignment where it has been used and may not be used unless specifically allowed by your instructor. Please see your instructor or the course policies within the syllabus if you have questions.

Student Resources

TUTORING SERVICES

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located as follows:

- Morristown Campus - Student Services Building Room L107 - (423) 585-6920
- Niswonger Campus - GRNV 226 - (423) 798-7982
- Sevierville Campus - MMH Room 210 - (865) 286-2787
- Claiborne Campus - Room 123A - (423) 851-4761

Specific tutoring assistance in mathematics and writing is available in-person and online as follows:

- Morristown Campus - English Learning Lab - HUM 120 - (423) 585-6970

[Walters State English Learning Lab \(opens in new window\)](https://www.walters.edu/academics/humanities/writing-lab)
[ws.edu/academics/humanities/writing-lab](https://www.walters.edu/academics/humanities/writing-lab)

- Morristown Campus - Mathematics Lab - MBSS 222 - (423) 585-6872

[Walters State Mathematics Learning Lab \(opens in new window\)](https://www.waltersstate.edu/academics/mathematics/learning-lab)
[ws.edu/academics/mathematics/learning-lab](https://www.waltersstate.edu/academics/mathematics/learning-lab)

TECHNOLOGY SUPPORT

Students who need assistance with computing and technology issues should contact the IET Helpdesk by phone at Morristown: (423) 318-2742; Niswonger: (423) 798-8186; or Sevierville: (865) 286-2789 or on-line access.

[Walters State Helpdesk \(opens in new window\)](https://www.waltersstate.edu/helpdesk)
helpdesk.ws.edu

STUDENTS WITH DISABILITIES SUPPORT SERVICES

Students with disabilities must register with Student Support Services each semester in the Student Services Building, Room U134 (phone (423) 585-6892) if they need any special facilities, services, or consideration.

[Walters State Student Support Services \(opens in new window\)](https://www.waltersstate.edu/student-services/disability/)
[ws.edu/student-services/disability/](https://www.waltersstate.edu/student-services/disability/)

SUICIDE PREVENTION STATEMENT

Walters State is committed to and cares about all students. Support services are available for any person at Walters State who is experiencing feelings of being overwhelmed, hopelessness, depression, thinking about dying by suicide, or is otherwise in need of assistance. For immediate help, contact the National Suicide Prevention Lifeline by calling or texting 9-8-8 or the Trevor Lifeline at 1-866-488-7386. Veterans may also contact the Veterans Crisis Line at 1-800-273-8255 (press 1) or Text 838255.

Walters State has a relationship in place with the following community agencies to provide services (may include crisis referral services, prevention screenings, etc.):

- Cherokee Health Systems 423-586-5032
- Frontier Health 423-467-3600

College Policies

STUDENTS HANDBOOK AS OFFICIAL GOVERNING DOCUMENT

This class is governed by the policies and procedures stated in the current Walters State Community College Student Handbook. All students attending Walters State Community College, regardless of

the time, location, or format of the class, must abide by the rules and regulations outlined in the current Walters State Catalog/Student Handbook and the current Walters State Timetable of Classes.

[Walters State Catalog \(opens in new window\)](#)
catalog.ws.edu/

[Walters State Timetable of Classes \(opens in new window\)](#)
ws.edu/admissions/registration/

PURPOSE, LIMITATIONS AND MODIFICATION OF SYLLABUS

This syllabus sets forth the expectations for the course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. The instructor reserves the right to modify this syllabus at any time with written notification to the students. Though changes are possible, it is expected that the course will be conducted as described in this syllabus for the semester/year specified in the Course Information section of the syllabus. This syllabus is only valid for the semester/year specified and course requirements are not guaranteed for future semesters.

COURSE GROUND RULES

- Students must attend the first day of on-ground class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class. Excessive absences may substantially lower the course grade.
- Regular class attendance is a student's obligation for any course regardless of format. (See the Walters State Catalog/Student Handbook). If a student misses class, it is his or her responsibility to contact the instructor regarding missed assignments and/or activities and to be prepared for the next class assignment.
- Students enrolled in web courses must follow the course attendance policy defined for online attendance during the first week of class and throughout the term. Failure to do this may result in being dropped from the class during week one OR may result in the accrual of absences which may negatively impact the student's grade in the course.
- Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Walters State student information system (MyWS) will not be allowed to remain in class or receive credit for this course.
- Electronic devices must not disrupt the instructional process or college-sponsored academic activity. Use of electronic devices is prohibited unless use of the device is relevant to the activity and use is sanctioned by the faculty member in charge. Electronic devices that are not relevant to the activity or sanctioned by the faculty member in charge should be set so that they will not

produce an audible sound during classroom instruction or other college-sponsored academic activity.

FINANCIAL AID

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

All forms of student Financial Aid may be jeopardized or lost due to the lack of Satisfactory Academic Progress in one or multiple courses. Lack of Satisfactory Academic Progress may negatively impact a student's degree/certificate completion pace and further jeopardize Financial Aid eligibility.

CANCELLATION OF CLASSES AND ACADEMIC CONTINUITY

For information related to the cancellation of classes due to inclement weather or other events, please check the Senators Emergency Text system or the college's Web site at:

[Walters State Homepage \(opens in new window\)](#)

ws.edu/home/

[Walters State Facebook page \(opens in new window\)](#)

<https://www.facebook.com/WaltersState/>

[Walters State Twitter page \(opens in new window\)](#)

<https://twitter.com/waltersstate>

or call the college's student information line, 1-800-225-4770, option 1; the Sevier County Campus, (865) 774-5800, option 7; the Niswonger Campus (423) 798-7940, option 7; or the Claiborne County Campus, 423-636-6200, option 7. Also, please monitor local TV and radio stations for further announcements.

When an event or disaster interrupts the scheduled operations of the college and the ability to proceed with the academic course activities as planned, the college and your instructor may alter the course plan outlined in the syllabus. Should an event occur, students should refer to their course e-Learn pages and/or class materials previously delivered to receive guidance from their instructor. Students should continue to monitor the official college channels of communication listed in the above paragraph. If you would like to sign up for the Senators Emergency Text system, please go to the following Web site:

[Senator Emergency Text System \(opens in new window\)](#)

ws.edu/set/

Dual Enrollment students attending on a high school campus should refer to the high school inclement weather cancellations.

LEARNING MANAGEMENT SYSTEM

Brightspace (commonly known as eLearn or D2L) is the college's Learning Management System (LMS).

Brightspace is committed to accessibility by "deliver[ing] a learning experience that meets the needs of all people, regardless of age or ability." [Brightspace Accessibility Standard \(opens in new window\)](#)

Brightspace is also committed to guarding student data and privacy. [Brightspace Privacy Policy \(opens in new window\)](#)