



Walters State Community College Course Syllabus

Course Information

Course Number and Name: MATH 1710 Precalculus Algebra

Section ID: 81118.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

Course Format: TWY - Two-Way Video/Audio (ITV)

Catalog Course Description: A pre-calculus course in the theory and application of polynomial, logarithmic, exponential, rational, power and inverse functions. This course is designed for people majoring in technical fields and to prepare students to take MATH 1910 - Calculus I. Students should consult with their advisor to decide among MATH 1530, MATH 1630 and MATH 1710. Prerequisite(s): ACT Math score of 22 or higher (or equivalent score as determined by the college placement and assessment procedure) or completion of mathematics learning support requirements. Co-rerequisite(s): MATH 0030 required for students with ACT math score below (or equivalent score as determined by the college placement and assessment procedure) or have not completed all learning support mathematics requirements and MATH 1030; or permission of Dean of Mathematics. **F, S, Su**

General Education Course Designation: General Education Course

Meeting Details: MW; 08:00AM - 09:25AM; MBSS 226

Course Drop Deadline: October 27, 2023

Instructor Information

Name: James Chandler

Office Location: MBSS 218

Office Hours: Monday and Wednesday: 7:30 to 8 am, 9:30 am to 12:30 pm, 1:30 to 2:20 pm; Tuesday and Thursday: 7:30 to 8 am, 11:10 am to 11:30 am, 2:10 to 2:30 pm

Office Phone: 423-585-6935

Email: Dustin.Chandler@ws.edu

Supervisor Name: Chris Knight

Supervisor Phone: 423-585-6879

Secretary Name: Tammy Holt
Secretary Phone: 423-585-6864

Required Textbook(s) and Materials

Precalculus

ISBN: ISBN-13: 978-1-951693-39-8 (digital)

Authors: Jay Abramson, Arizona State University; Valeree Falduto, Palm Beach State College; Rachael Gross, Towson University; David Lippman, Pierce College; Melonie Rasmussen, Pierce College; Rick Norwood, East Tennessee State University; Nicholas Belloit, Florida State College at Jacksonville; Harold Whipple, Formerly of Columbia College; Jean-Marie Magnier, Springfield Technical Community College; Christina Fernandez

Publisher: Openstax

Publication Date: Dec 21, 2021

Edition: 2nd

Additional Information

<https://openstax.org/details/books/prec calculus-2e>

Supplemental or Optional Materials

1. Homework and quizzes are primarily assigned through MyOpenMath (MOM). Students will access MOM through the class eLEARN page.
2. Students participating in class remotely will be required to have a working camera and microphone no later than **Wednesday, August 30th**.
3. A graphing calculator or other graphing utility will be helpful during in-class work and while working on homework assignments. Students will be expected to create some graphs by hand on exams.

Student Learning Outcomes/Objectives

- Demonstrate an understanding of functions by several means (verbally, numerically, graphically and symbolically).
- Use linear, quadratic, polynomial, rational, exponential, logarithmic functions, and inverse functions to solve problems and judge the reasonableness of the results.

- Analyze data, develop representative mathematical models (including regression analysis), and evaluate the appropriateness of the model.
- Use appropriate technology to solve mathematical problems.
- Build sum, difference, product, quotient, and composite functions.
- Use transformations to change a graphical model by varying constants and coefficients in a function.
- Demonstrate an understanding of the concept of imaginary numbers and do basic operations with complex numbers.
- Apply the Fundamental Theorem of Algebra to find all complex zeros of a polynomial.
- Solve logarithmic and exponential equations.
- Find horizontal and vertical asymptotes of rational functions and sketch the graphs.

Instructional Approach and Methods

- This course will be offered in a live/video streaming format where students are encouraged to attend class in-person, but are permitted to attend class virtually via Microsoft Teams. The link to the class Team will be posted in the course eLEARN page prior to the first day of class, and sent out via email to all students the morning of the first class meeting.
- Classes will be a combination of lecture, class discussion, examples, and independent/small group practice. Students are expected to take notes during lectures, participate in discussions, follow along with examples, and participate in independent/small group practice. Students can and should expect to be called on to answer questions and provide solutions to practice problems.
- Students are expected to familiarize themselves with the definitions and symbols used in statistics in addition to the formulas and calculator functions necessary for probability and statistical analysis.
- Students participating virtually are further expected to have a working camera and microphone no later than **Wednesday, August 30th**. Students will need to have

their camera and microphone on during class. Alternative and blurred backgrounds are allowed, provided the students is still visible and the alternative background is appropriate.

Assessment, Evaluation and Testing Procedures

- Homework will primarily be assigned through the software package MyOpenMath. MyOpenMath Homework is worth **10%** of your semester grade.
- Quizzes **will primarily be assigned through the software package MyOpenMath.** Completion of the associated homework (80% or better) is a prerequisite for each quiz. Your quiz average is worth **15%** of your semester grade.
- Four tests will be given over the course of the semester, with questions coming from homework, quizzes, and in-class examples. Students must complete the homework and quizzes for each module before testing. Students that have not completed each module will instead go to the math lab on exam day. Each exam will be offered only once in class. Student that miss an exam or need to retake an exam will be responsible for scheduling an appointment with Ms. Dixon in the math lab. Students that fail to schedule an appointment for a test/retest in advance may not be able to test that day.
- Students will be allowed to retake each exam **one** time. Students that miss the in-person exam will not be allowed to retake the exam. If a student has taken the exam twice, the overall grade for the exam will be a weighted average of the original take and the retake. On tests one and two, the retake will be counted twice (67%) in the calculation. On tests three and four, the original and retake will be counted equally (50%).
- The average of the four exam grades is worth **50%** of your final grade.
- A comprehensive final exam will be given on **Monday, December 4th**, from **8 to 10 am**. All students are expected to take the final exam in-person. Students in quarantine during finals week will need to notify the instructor immediately so that other arrangements can be made. The final exam average is worth **25%** of your semester grade.

Grading Scale

A	Semester Average \geq 90
B	Semester Average \geq 80
C	Semester Average \geq 70
D	Semester Average \geq 60
F	Semester Average $<$ 60

Assignments

Homework and quizzes will primarily be assigned through MyOpenMath (embedded in eLEARN), but supplemental assignments may be done through eLEARN or in-class. The class will have three unit tests and a comprehensive final exam. The unit tests and final exam must be taken on campus in a proctored environment.

Class Participation

- This is a hybrid class, so students have the option to attend class virtually. Students attending class in-person are expected to follow along with class examples, take notes, ask appropriate questions, and participate in class discussions. Students attending class via video streaming are required to keep their camera on during the entire class; virtual students are also expected to use their microphones to communicate with the class, answer questions, and participate in class discussions.
- Daily class participation will be a graded activity worth up to **5 bonus points** on each exam. Students will be called on throughout the semester and will be expected to provide an appropriate (not necessarily correct) answer. Students will receive 1 bonus points on the next exam for each appropriate answer they volunteer or provide when called upon.

Course and Class Policies/Procedures

- Regular attendance is essential for your success in this course. This class is offered in both conventional and video streaming formats to accommodate student health

concerns while still providing as much direct instruction as current public health guidelines allow.

- Students participating virtually will be expected to keep their camera on for the duration of the class. Blurred and alternate backgrounds are allowed during instructional time, provided the alternate background is appropriate for a school setting.
- Students participating in-person may use laptops and other personal electronic devices during class only if the device is being used for class-related activities. Students observed working on tasks not related to classwork will be asked to turn the device off for the remainder of the class. This includes working on homework assignments during instructional/group work time.

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.walters.edu/academics/mathematics/learning-lab)
[ws.edu/academics/mathematics/learning-lab](https://www.walters.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 \(opens in new window\).](#)

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 \(opens in new window\).](#)

ws.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 \(opens in new window\)](https://www.waltersstate.edu/admissions/registration/)
[ws.edu/admissions/registration/](https://www.waltersstate.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 \(opens in new window\)](http://ws.edu/home/)
ws.edu/home/

[Walters State Facebook page \(opens in new window\)](https://www.facebook.com/WaltersState/)
<https://www.facebook.com/WaltersState/>

[Walters State Twitter page \(opens in new window\)](https://twitter.com/waltersstate)
<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 \(opens in new window\)](http://ws.edu/set/)
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 \(opens in new window\)](#).