



Walters State Community College Course Syllabus

Course Information

Course Number and Name: MATH 1030 Intermediate Algebra

Section ID: 50335.202350

Semester and Year: Summer 2023

Credit Hours: 3

Start Date: June 01, 2023

End Date: August 03, 2023

Course Format: WEB - Web Classes

Catalog Course Description: This course includes analysis of polynomial, rational, exponential, logarithmic and radical functions as well as solving quadratic, rational, and radical equations. MATH 1030 is not a general education mathematics course. Prerequisite(s): ACT Math score of 19 or higher (or equivalent score as determined by the college placement and assessment procedure) or completion of mathematics learning support requirements. Co-requisite(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. **F, S, SU**

Meeting Details: TBD

Course Drop Deadline: July 12, 2023

Instructor Information

Name: Timothy Burgner

Role: Mathematics Instructor

Office Location: CCEN 126

Office Hours: Phone - Txt, email, or facetime

Office Phone: 423-278-0256

Email: Timothy.Burgner@ws.edu

Supervisor Name: David Atkins

Supervisor Phone: 865-243-0081

Secretary Name: Tammy Holt

Secretary Phone: 585-6864

Required Textbook(s) and Materials

N/A

N/A

Additional Information

All Course Material is provided 'free of charge' in eLearn within the Course Information "CONTENT" Tab. Internet access and a computer with a web camera and microphone is mandatory. Tests will be proctored by instructor during predetermined times. Times will be made available to you several days in advance of testing. If you cannot test during predetermined proctoring times and dates, you will have to pay to test through ProctorU proctoring services. Otherwise, you will not have to pay extra to take your tests. Times TBD

Supplemental or Optional Materials

A TI-83 or TI-84 graphing calculator is required for this course. Discuss with your instructor if you own a different graphing calculator. TI-84 calculators are available for loan through the Walters State library at no cost for the semester.

Student Learning Outcomes/Objectives

- Students will gain an understanding and demonstrate knowledge of all course sub-objectives through the successful completion of homework and quiz assignments, four unit exams and one comprehensive final exam.
 - 1) Graph and analyze a quadratic function. (Identify the vertex, x-intercept(s), and y-intercept. Identify the maxima and minima of the function, the x-values where the function is increasing and decreasing, and the domain and range of the function.
 - 2) Simplify an expression involving integer exponents using the rules for exponents including applications with scientific notation.
 - 3) Perform operations (addition, subtraction, multiplication and factoring) on polynomials.
Note: division is only done with monomials.
 - 4) Solve a quadratic equation using multiple approaches - numeric, graphic, and symbolic (including factoring quadratic formula).

- 5) Perform operations (add, subtract, multiply and divide) von rational expressions with an emphasis on unit conversions and negative exponents.
- 6) Solve rational and radical equations.
- 7) Simplify radical expressions with positive and negative integer radicands. Convert between rational exponents and radical expressions.
- 8) Solve real world problems integrated throughout the course including the distance formula and the Pythagorean Theorem.
- 9) Introduction to exponential and logarithmic functions (including properties and graphs)
- 10) Use graphing calculators and/or computers in learning and doing mathematics.

Instructional Approach and Methods

1. Class material is provided through E-learn content. There are 23 lessons, each with a lecture guide, power point presentation, and homework assignment. Students are encouraged to print the lecture guide to assist with following the presentation. The power point presentation should be viewed as a slide show, and examples carefully worked through to learn the skills necessary to complete assignments.
2. Homework assignments will be administered through MyOpenMath embedded inside eLearn. These homework assignments will have unlimited attempts until the due date.
3. A total of 12 quizzes will be administered through MyOpenMath embedded inside eLearn. These quiz assignments will each have three attempts, with the highest grade counting. Quizzes have a 30 minute time limit each.
4. There will be four unit exams over the course material and a comprehensive final exam. Exams may be taken on or before the posted deadline. Exams must be scheduled with the instructor and will be taken either IN PERSON, or ONLINE with a proctor. You may use up to 90 minutes for a Unit exam, and 2 hours for the final exam.

Assessment, Evaluation and Testing Procedures

All assignments, quizzes and exams are listed on the course schedule posted in e-learn content. Each has a "suggested" completion date, and a "firm" due date. Any assignment, quiz or exam not completed by the "firm" due date will be recorded as a zero. DO NOT wait until the last minute to complete work. Attempting to complete all work by the "suggested" dates will give you a comfortable cushion of time to deal with unexpected events or to get help with difficult material. Questions in the

homework assignments can be redone and corrected up until the deadline so that you can get whatever grade you are reaching for by being persistent. You may get assistance with problems by contacting tutoring services or your instructor. You are encouraged to work with other students on the HW assignments if you can. Helping others reinforces and deepens your understanding and skill level. You have up to 3 attempts on each quiz, up till the deadline. Take quizzes early enough that you can learn from your mistakes and improve your final score. You must schedule each exam with the instructor. Failing to make these arrangements will not extend your deadline. As an exam deadline approaches, your instructor will send a reminder email that outlines your choices for exam times and format. If you are ready for an exam earlier, contact the instructor. Please note that you cannot just log in and take an exam whenever you like. You can choose a reasonable date and time, but this must be arranged with your instructor at least 24 hours in advance. In person exams are encouraged, and you will still have flexible scheduling options for that. Online exams will require some set-up on your part, and you must meet specific technology requirements. If you plan to take any exams online, you should do a "practice" session with your instructor early in the term to be sure that there will be no issues on test days. Even for online exams, you will need to show work on paper, and turn the papers in by submitting them to a drop box while online with your test proctor.

Unit exams are counted as 60% of your final grade: 15% for each unit exam The final exam is also 15% Quizzes count as 10% Homework counts as 15%

Grading Scale

A	90-100
B	80-89
C	70-79
D	60-69
F	Less than 60

Assignments

Assignments are accessed directly through the class e-learn pages. Go to the course e-learn page, click "course information" and choose "content". Be sure to keep track of deadlines.

Class Participation

There are no mandatory class meetings. Your instructor will be happy to meet with you via TEAMS, or in person, if you would like.

Course and Class Policies/Procedures

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/

Online/Web-Enhanced Course Supplementary Information

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. You are responsible for finding and using reliable internet connections. If there is a problem with home internet, students are welcome to use the wi-fi available on campus. Wi-fi access on campus is available in some parking areas. This link provides maps of the parking areas on each campus where wi-fi can be accessed: WSCC Campus Wi-Fi Access You will need to use e-learn for class information and assignments. You should check your email in elearn daily. You will need to download and use the TEAMS meeting app to meet online with the instructor, and to take online exams. If you take an exam in an online format, you will need a method to submit your exam work pages into a drop-box. Most students use their cell phones to take pictures and then submit them

Additional Course Requirements/Details/Information

Chapter 5 – Ratio, Proportion, and Percent 5.1 Ratio and Proportion Chapter 10 – Graphing Equations and Inequalities 10.6 Introduction to Functions Chapter 12 - Exponents and Polynomials 12.1 Exponents 12.2 Negative Exponents and Scientific Notation 12.3 Introduction to Polynomials 12.4. Adding and subtracting Polynomials 12.5 Multiplying Polynomials 12.6 Special Products Chapter 13 – Factoring Polynomials 13.1 The Greatest Common Factor and Factoring by Grouping 13.2 Factoring Trinomials of the Form 13.3 Factoring Trinomials of the Form 13.4 Factoring Trinomials of the Form by Grouping (Optional) 13.5 Factoring Perfect Square Trinomials and the Difference of Two Squares 13.6 Solving Quadratic Equations by Factoring 13.7 Quadratic Equations and Problem Solving Chapter 14 – Rational Expressions 14.1 Simplifying Rational Expressions 14.2 Multiplying and Dividing Rational Expressions 14.3 Adding and Subtracting Rational Expressions with the Same Denominator and Least Common Denominator 14.4 Adding and Subtracting Rational Expressions with Different Denominators 14.5 Solving Equations Containing Rational Expressions Chapter 15 – Roots and Radical 15.1 Introduction to Radicals 15.5 Solving Equations Containing Radicals 15.6 Radical Equations and Problem Solving Chapter 16 - Quadratic Equations and Nonlinear Graphs 16.1 Solving Quadratic Equations by the Square Root Property 16.3 Solving Quadratic Equations by the Quadratic Formula 16.4 Graphing Quadratic Equations in Two Variables 16.5 Interval Notation,

Academic Program Standards/Policies/Accreditation Information

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 (StarNET) 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.

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.

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