



Walters State Community College Course Syllabus

Course Information

Course Number and Name: MATH 1410 Number Concepts for Teachers

Section ID: 80626.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

Course Format: DVC - Desktop Video Course

Catalog Course Description: Students will use problem solving and logic to develop number sense and a conceptual understanding of number systems, number operations, number theory, and functions. These concepts will be explored using manipulative materials, collaborative activities, and technology. 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. **F**

Meeting Details: MW; 02:20PM - 03:45PM; DVC

Course Drop Deadline: October 27, 2023

Instructor Information

Name: Julianna Gregory

Office Location: ACAD 225

Office Hours: See eLearn

Office Phone: 865-774-5809

Email: julianna.gregory@ws.edu

Supervisor Name: Chris Knight, Dean of Mathematics

Supervisor Phone: 423-585-6879

Secretary Name: Tammy Holt, Executive Aide

Secretary Phone: 423-585-6864

Required Textbook(s) and Materials

No Required Text

Additional Information

REQUIRED: 1) TI-83 or TI-84 graphing calculator required for course – discuss with instructor if you own a different graphing calculator

2) MyOpenLab Software Access (free)

3) Math 1410 Lecture Guides

Supplemental or Optional Materials

Optional Text: Mathematics For Elementary Teachers A Conceptual Approach, 9th Edition by Albert B. Bennett, Jr. and L.Ted Nelson

Student Learning Outcomes/Objectives

- 1. Identify and use various problem solving strategies.
- 2. Demonstrate an understanding of different numeration systems.
- 3. Use manipulatives, diagrams, and verbal explanations to demonstrate an understanding of number systems and operations.
- 4. Demonstrate an understanding of the concepts of variables and mathematical functions using verbal, numerical, graphical, and algebraic representations.
- 5. Perform mathematical computations using estimation skills, algorithmic procedures, and mental strategies.
- 6. Demonstrate properties of and the relationships between whole, rational, integer, and real numbers.
- 7. Describe, extend, and generalize patterns of shapes and numbers.

Instructional Approach and Methods

1. Regular attendance is mandatory for your success in this course. It is the student's responsibility to contact the instructor BEFORE each planned or school-sponsored absence.

2. Overall Attendance: Attendance for the purposes of the college will be based on three things. Any one of these will trigger being reported as not attending. First, if two consecutive weeks of class meetings are missed, you will be reported as not attending. Second, if you do not log in to eLearn to access recorded lectures or turn in quizzes for two consecutive weeks, you will be reported as not attending. Third, if you do not log in to MyOpenMath to work on your homework for two consecutive weeks, you will be reported as not attending. If you stop participating in class, the last date you did any one of these three actions will be used as your last date of attendance.

3. First week attendance: To qualify as attending class during the first week, you must 1) set up your MyOpenMath account, 2) get into your MyOpenMath class, and 3) get into the TEAMS class by Friday, August 25 at 10 am (attending your TEAMS class on Monday and Wednesday would be really good as well...).

Assessment, Evaluation and Testing Procedures

1. Homework will be administered through the software package MyOpenMath. Homework assignments will have an unlimited number of attempts up to the deadline assigned. If a homework assignment is not taken by the deadline, it will receive a grade of 0.
2. All quizzes will be given and turned through eLearn in a Dropbox. If a quiz is not turned in to the eLearn Dropbox by the due date and time it will receive a score of zero. The lowest three quiz scores will be dropped. Two homework problems must be presented on the white board (via TEAMS) during the semester and will count as two quiz grades that are not droppable (Quiz 12 and Quiz 13). The first problem is due by October 4 with the second problem due by November 20.

3. Take-home projects will be assigned. In order to receive full credit on the project, the project must be turned in before or on the due date. Projects **cannot** be dropped and must be made-up on student's own time.
4. There will be three chapter tests and a final exam will be given. Students who are absent on the day of a test must arrange with the instructor to complete the test prior to the next class meeting. Failure to do so will result in the comprehensive final exam score also being used for the missed test score. The final exam score can only be used for one missed test score. Additional missed tests will receive a score of zero. All four (tests and final) exams will be proctored online during a narrow window of time that corresponds to the regular class time. It is the student's responsibility to acquire the appropriate technology to take the test: a computer, internet, web camera, and microphone.
5. There will be a comprehensive final exam. For financial aid purposes, students should plan to attend the final exam. The exam schedule is as follows: **Math 1410-A11: 2:45 p.m. – 4:45 p.m. on Monday, December 4**

Online/Web-Enhanced Course Supplementary Information



To make an appointment with Bookings:

<https://outlook.office365.com/owa/calendar/JuliannaGregory@ws.edu/bookings/>

Grading Scale

A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%

F	0 – 59%
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Assignments

Grade Composition:

Homework 8%

Quizzes Total 14%

Projects 3%

Chapter Tests Average 55%

Final Exam 20%

Final Average = $0.08(\text{Homework}) + 0.14(\text{Quizzes}) + 0.03(\text{Projects}) + 0.55(\text{Chapter Test Average}) + 0.20(\text{Final Exam})$

Additional Course Requirements/Details/Information

Additional Course Details

Chapter 1 – Problem Solving

Section 1.1 Introduction to Problem Solving

Section 1.2 Patterns and Problem Solving

Section 1.3 Problem Solving with Algebra

Chapter 2 – Sets, Functions, and Reasoning

Section 2.1 Sets and Venn Diagrams

Section 2.2 Functions, Coordinates, and Graphs

Chapter 3 – Whole Numbers

Section 3.1 Numeration Systems

Section 3.2 Addition and Subtraction

Section 3.3 Multiplication

Section 3.4 Division and Exponents

Chapter 4 – Number Theory

Section 4.1 Factors and Multiples

Section 4.2 Greatest Common Factor and Least Common Multiple

Chapter 5 – Integers and Fractions

Section 5.1 Integers

Section 5.2 Introduction to Fractions

Section 5.3 Operations with Fractions

Chapter 6 – Decimals: Rational and Irrational Numbers

Section 6.1 Decimals and Rational Numbers

Section 6.2 Operations with Decimals

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 \(opens in new window\)](https://www.walters.edu/helpdesk)
[helpdesk.ws.edu](https://www.walters.edu/helpdesk)

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.walters.edu/student-services/disability/)
[ws.edu/student-services/disability/](https://www.walters.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 \(opens in new window\)](https://catalog.ws.edu/)
catalog.ws.edu/

[Walters State Timetable of Classes \(opens in new window\)](https://ws.edu/admissions/registration/)
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 \(opens in new window\)](http://www.waltersstate.edu/home/)
[ws.edu/home/](http://www.waltersstate.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 \(opens in new window\)](#)