University of North Texas at Dallas
Fall 2024
Syllabus for MATH 1354-001
Numbers and Operations for Teachers

Department of	Mathematics	School of	Liberal Arts and Life Sciences
Instructor Name:	Brian Beck-Smith, M. Ed		
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Office Hours:	Tuesdays from 4:15pm – 5:15pm
Classroom Location:	Founders Hall (FH) 303
Class Meeting Days & Times:	Tuesdays and Thursdays – 5:30pm to 6:50pm
Course Catalog Description:	This course is intended for individuals seeking EC-6 teaching certification. This course will cover the number and operations concepts taught in elementary and middle school including word problems, fractions, decimals, percents, and proportions.
Prerequisites:	TSI Math complete or MATH 1010 with a grade of C or better
Required Text:	There is no textbook for this class. All materials will be posted on Canvas.

Access to Learning Resources:	**UNT Dallas Library:** phone: (972) 780-1616 web: http://www.untdallas.edu/library email: library@untdallas.edu **UNT Dallas Bookstore:** phone: (972) 780-3652 web: http://www.untdallas.edu/bookstore e-mail: untdallas@bkstr.com
Supported Browsers: Chrome 67 & 68 Firefox 60 & 61 Flash 29, 30 (for audio/video) Internet Explorer 11 Edge 41, 42 Respondus Lockdown Browser Safari 10, 11 **Supported Devices:** iPhone Android Chromebook *(Tablet users can use the Canvas app)* **Screen Readers:** VoiceOver (Safari) JAWS (Internet Explorer) NVDA (Firefox)	**Getting Help with Canvas:** **Canvas 24/7 Phone Support for Students: 1-833-668-8634** **Canvas Help Resources:** **Web:** Canvas Student Guide **For additional assistance, contact Student Assistance (Distance Learning):** Founders Hall, Rm 124 phone: (972)338-5580 email: distancelearning@untdallas.edu *If you are working with Canvas 24/7 Support to resolve a technical issue, make sure to keep me updated on the troubleshooting progress.*

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Note: There is no screen reader support for Canvas in Chrome	***If you have a course-related issue (course content, assignment troubles, quiz difficulties) please contact me during office hours or by email.***

Course Goals or Overview: The goals of this course are as follows -

1. To prepare teacher candidates for the mathematics portion of the TExES EC-6 Core Subjects test.

2. To equip teacher candidates with the mathematics content knowledge needed to teach elementary school.

Learning Objectives / Outcomes: The learning objectives for this course are identical to the skills required in Competency 002 of Subject Test II, which is part of the Core Subjects EC-6 TExES test. Competency 002 of Subject Test II states, "The teacher understands concepts related to numbers, operations and the properties of numbers. The beginning teacher:

1	Analyzes, creates, describes, compares, and models relationships between number properties, operations, and algorithms for the four basic operations involving integers, rational numbers, and real numbers, including real-world situations.
2	Selects appropriate representations of real numbers (e.g., fractions, decimals, percents) for particular situations.
3	Demonstrates an understanding of ideas from number theory (e.g., prime factorization, greatest common divisor, divisibility rules) as they apply to whole numbers, integers and rational numbers, and uses those ideas in problem situations.
4	Understands the relative magnitude of whole numbers, integers, rational numbers and real numbers including the use of comparative language and sets of objects.
5	Identifies and demonstrates an understanding of and uses of a variety of models and objects for representing numbers (e.g., fraction strips, diagrams, patterns, shaded regions, number lines).
6	Identifies, demonstrates, and applies knowledge of counting techniques, including combinations, to quantify situations and solve math problems (e.g., to include forward, backward and skip counting, with or without models).

Face-to-Face / Hybrid Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class, via class email, or Canvas announcement. Additional readings, activities, or tasks may be added per the teacher's discretion. These will be noted in the Activities and Tasks section. Important dates are color-coded under the Schedule column.

Schedule	Unit	Topics, Activities, and Assignments	Due Dates
Week 1: 08/26 – 08/30	**Unit 1: Whole Numbers**	**Tuesday:** *Base-Ten System* *Rounding Whole Numbers*	**All Unit 1 Assignments are due by 09/20/2024 before 11:59pm**
		Thursday: *Number Lines*	

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Week 2: 09/02 – 09/06 **09/04** **Labor Day**	**Unit 1:** **Whole** **Numbers**	**Tuesday:** *Adding and Subtracting* *Whole Numbers* *Multiplying and Dividing* *Whole Numbers*	**All Unit 1** **Assignments** **are due by** **09/20/2024** **before 11:59pm**
		Thursday: *Mental Math and Estimation*	
Week 3: 09/09 – 09/13 **09/11** **Census Day**	**Unit 1:** **Whole** **Numbers**	**Tuesday:** *Exponent Laws*	
		Thursday: *Order of Operations*	
Week 4: **09/16 – 09/20**	**Unit 1** **Assessment**	**Number System Lesson** **Project Presentations**	
Week 5: 09/23 – 09/27	**Unit 2:** **Number** **Theory**	**Tuesday:** *Divisibility Tests*	**All Unit 2** **Assignments** **are due by** **10/11/2024** **before 11:59pm**
		Thursday: *Primes and Composites*	
Week 6: 09/30 – 10/04	**Unit 2:** **Number** **Theory**	**Tuesday:** *Greatest Common Factor*	
		Thursday: *Least Common Multiple*	
Week 7: **10/07 – 10/11**	**Unit 1 and** **Unit 2** **Assessment**	**Tuesday:** **Exam 2 (Midterm) Review**	
		Thursday: **Exam 2 (Midterm) Exam** **5:30pm – 6:50pm**	
		Tuesday: *Proper, Improper Fractions,* *and Mixed Numbers*	

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Week 8: 10/14 – 10/18	**Unit 3: Fractions**	**Thursday:** *Equivalent Fractions and Simplest Form*	
Week 9: 10/21 -10/25	**Unit 3: Fractions**	**Tuesday:** *Ordering Fractions*	**All Unit 3 Assignment are due by 11/08/2024 before 11:59pm**
		Thursday: *Adding and Subtracting Fractions*	
Week 10: 10/28 – 11/01	**Unit 3: Fractions**	***Tuesday:*** *Multiplying and Dividing Fractions*	
		Thursday: *Ratios and Proportions*	
Week 11: 11/04 – 11/08 **11/08 Last Day to Drop for Grade of "W"**	**Unit 1, 2, and 3 Assessment**	**Tuesday: Exam 3 Review**	
		Thursday: Exam 3 Assessment 5:30pm – 6:50pm	
Week 12: 11/11 – 11/15	**Unit 4: Decimals and Percents**	**Tuesday:** *Decimal, Fractions, and Percent Conversions*	**All Unit 4 Assignments due 11/22/2023 by 11:59pm**
		Thursday: *Adding and Subtracting Decimals Multiplying and Dividing Decimals*	
Week 13: 11/18 – 11/22		**Tuesday:** *Finding Percents of a Number Solving Percent Problems*	

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	Unit 4: Decimals and Percents	Thursday: Fraction, Decimal, and Percent Presentation Projects	All Unit 4 Assignments due 11/27/2024 by 11:59pm
Week 14: 11/25 – 11/29 11/23 – 11/24: Fall / Thanksgiving Break	Unit 4 Assessment	Tuesday: Fraction, Decimal, and Percent Presentation Projects	
		Thursday: Thanksgiving Day No Class	
Week 15: 12/02 – 12/06 12/05: Last Day to File for an Incomplete Grade 12/06: Reading Day	Units 1-4 Review	Tuesday: Final Exam Review (*Attendance recommended but not required*)	All Late Assignments are due by 12/06/2024 before 11:59pm
		Thursday: Final Exam Review (*Attendance recommended but not required*)	
Week 16: 12/09 – 12/13	All Units	Final Exam: TBD	

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Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

1. **Attendance:** Attendance is highly recommended for this course and it is documented accordingly. If you are not going to be in attendance for a class meeting, please send me a Canvas message or email me directly.

2. **Discussion Boards:** Discussion boards are discussions that address essential questions through a unit that elaborates on information presented during lecture. You are required to participate in the discussion posts as they will be used as documentation for course participation.

3. **Tasks:** Tasks are assignments that addresses topics in a particular unit. You are required to complete and submit these on or before the due date stated in the Course Outline above.

4. **Exercise Sets:** Exercises sets are problems that allows reinforcement of topics discussed throughout lecture. Students are required to complete these assignments so that adequate feedback is given in preparation for assessments.

5. **Assessments**: Assessments are either projects or exams that allow the students to show mastery in a particular unit. ***Make-up or rescheduled exams will not be given unless communication has been made to me at least 24 hours prior to the day of the exam.*** Please reference the **Exam Policy** section below for more information.

6. **Final Exam:** The final exam is a cumulative assessment that addresses all the units in the courses. These questions are similar to those found on the TExES EC-6 Math portion of the examination. Please reference the **Exam Policy** section below for more information.

GRADING MATRIX

Instrument	Point Value
Tasks	10 points each
Exercise Sets	10 points each
Discussions	10 points each
Assessments	100 points each
Final Exam	150 points

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GRADE DETERMINATION:

A: 89.50% - 100%   **D: 59.50% - 69.49%**

                          C: 69.50% - 79.49%

B: 79.50% - 89.49%   **F: 0.00% - 59.49%**

Note: The Emerging Teacher Institute requires a minimum grade of C or better in this course.

University Policies and Procedures
Students with Disabilities (ADA Compliance):
Chapter 7(7.004) Disability Accommodations for Students:

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see Disability Services Office. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Building 2, room 204.

Canvas Instructure Accessibility Statement:
University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. Canvas Instructure Accessibility Statement is also provided.

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Course Evaluation Policy:
Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

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Assignment Policy: The written assignments are submitted at the beginning of lecture of the specified due date mentioned above in the Course Outline. Late submission will be accepted with the late penalty of 2% per day. In any case, the final submission must be done before the final exam.

Exam Policy: Exams must be taken in person or online, as scheduled, except for documented emergencies approved by the instructor in individual bases. TI-84 or TI-Nspire level calculators are allowed, but calculators with computer algebra system (such as TI-89, TI-92 or Voyage 2000) are not allowed during the exam. Other than pre-approved calculators, no other computing aid (such as those supported by tablets and smart phones) is allowed. Cell phones are allowed but they are for emergency calls only.

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to UNT Dallas' Student Code of Academic Integrity for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some online or hybrid courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom Policies
Online Attendance and Participation:
The University attendance policy is in effect for this course. Class attendance in the Canvas classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency.

Attendance for this online or hybrid course is considered when you are logged in and active in Canvas, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to UNT Dallas' Registrar for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.

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Inclement Weather and Online Classes: Online classes may or may not be effected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

Online "Netiquette":
In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, Discussion Board messages and/or any other forms of written communication in the online environment should use proper "netiquette" (i.e., no writing in all caps (usually denotes yelling), no curse words, and no "flaming" messages (angry, personal attacks). Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.
Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University's policies and procedures. Refer to UNT Dallas Student Code of Conduct. Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Assistance: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you experience difficulty accessing or using components of the course, try using Google Chrome browser. If you still experience technical difficulties, first, notify your instructor.

If the problem is still not resolved, call Student Assistance (Distance Learning) at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups. For more information see:

1.   UNT Dallas Canvas Technical Requirements
2.   Canvas Instructure Supported & Unsupported Operating Systems