# University of North Texas at Dallas
# Fall 2016
# SYLLABUS

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| **Department of** | Mathematics | **School of** | Liberal Arts & Sciences |

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| **Instructor Name:** | Dr. Gwen Johnson |
| **Office Location:** | Bldg 2 (Founders Hall) room 232 |
| **Office Phone:** | 972-338-1320 |
| **Email Address:** | Gwendolyn.johnson@untdallas.edu |

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| **Office Hours:** | Mondays and Wednesdays 11:30 to 1:00 and 2:30 to 3:30<br>Thursdays 2:30 to 5:30<br>Tuesdays and Fridays by appointment and by email. |

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| **Classroom Location:** | Building 2 room 241 |
| **Class Meeting Days & Times:** | Thursdays 5:30 to 6:50 and online |

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| **Course Catalog Description:** | Intended for individuals seeking EC-6 or Grades 4-8 teaching certification. An in-depth investigation of the number and operations concepts taught in elementary and middle school including solving word problems; estimation; number theory (GCF and LCM); rational numbers; proportional reasoning. |

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| **Prerequisites:** | TSI-Math complete |
| **Required Text:** | none |
| **Access to Learning Resources:** | UNT Dallas Library:<br>    phone: (972) 780-1616<br>    web: http://www.untdallas.edu/library<br>    email: library@untdallas.edu<br>UNT Dallas Bookstore:<br>    phone: (972) 780-3652<br>    web: http://www.untdallas.edu/bookstore<br>    e-mail: untdallas@bkstr.com |

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

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| 1. | To prepare students for the Arithmetic Accuplacer test |
| 2. | To prepare students for the mathematics portion of the EC-6 Core Subjects test. |
| 3. | To provide students with the mathematics knowledge necessary to teach elementary school. |

**Learning Objectives/Outcomes:** At the end of this course, students will be able to:

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| 1 | Solve mathematics word problems that involve more than one operation. |
| 2 | Identify numbers as prime or composite. Find greatest common factor and least common multiple. |
| 3 | Solve word problems that involve fractions, decimals, and/or percents. |
| 4 | Use models to represent fractions and decimals. |
| 5 | Use models to represent rates, ratios, and proportions. |
| 6 | Solve word problems that involve rates, ratios, and proportions. |

## Hybrid Course Outline

This schedule is subject to change by the instructor.  Any changes to this schedule will be communicated in class or via class email or Blackboard announcement. Additional readings and activities may be added.

| Date | Topics | In-Class | On Your Own |
|---|---|---|---|
| Aug. 25 | History of Numbers<br>Underst. & Writing Word Problems<br>Division Methods | PowerPoint 1A<br>Group Activity: Word Problems<br>and Division Methods | Practice 1A |
| Sept. 1 | Estimation<br>Order of Operations<br>Types of Numbers | PowerPoint 1B<br>Group Activity: Rational and<br>Irrational Numbers | Practice 1B |
| Sept. 8 | Divisibility<br>Prime and Composite Numbers<br>Least Common Multiple | PowerPoint 1C<br>Group Activity:<br>The Sieve of Eratosthenes | **Homework #1** |
| Sept. 15 | | **Test #1** | Fraction Review |
| Sept. 22 | Fractions | PowerPoint 2A<br>Group Activity | Practice 2A |
| Sept. 29 | Fractions | PowerPoint 2B<br>Group Activity | **Homework #2** |
| Oct. 6 | | **Test #2** | Online assign. on<br>Place Value |
| Oct.13 | Decimals<br>Scientific Notation | PowerPoint 3A<br>Group Activity | Practice 1A |
| Oct. 20 | Percents | PowerPoint 3B<br>Group Activity | Practice 1B |
| Oct. 27 | Percents | PowerPoint 3C<br>Group Activity | **Homework #3** |
| Nov. 3 | | **Test #3** | Online assign. on<br>Rates, Ratios |
| Nov. 10 | Rates, Ratios, Strip Diagrams | PowerPoint 4A | Practice 4A |
| Nov. 17 | Proportions | PowerPoint 4B | **Homework #4** |
| Dec. 1 | | Review | |
| TBD | | **Final Exam** | |

## Course Evaluation Methods

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

**Grading Matrix:**

| Item | Total Points | Percent |
|------|:---:|:---:|
| Four Homework Assignments | 100 | 17% |
| Three Tests | 300 | 50% |
| Final Exam | 100 | 17% |
| Attendance | 50 | 8% |
| Group Activities | 50 | 8% |
| **Total:** | **600** | **100%** |

<u>**Grade Determination**</u>
**A = 90% or better**
**B = 80 – 89 %**
**C = 70 – 79 %**
**D = 60 – 69 %**
**F = less than 60%**

# <u>University Policies and Procedures</u>

**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 the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Building 2, room 204.

Blackboard Learn 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.  Blackboard Learn course management system's accessibility statement is also provided: http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx

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.

**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 the Student Code of Academic Integrity at
http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf
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.

# Classroom Policies

**Online Attendance and Participation**:
The University attendance policy is in effect for this course.  Class attendance in the Blackboard 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 Blackboard, 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 http://www.untdallas.edu/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

**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 the Student Code of Student Rights Responsibilities and Conduct at http://www.untdallas.edu/osa/policies. 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 Requirements:** 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.

Blackboard Learn 9.1 is the platform software for this course. Blackboard Learn supports major web browsers such as Windows Internet Explorer, Apple Safari, Mozilla Firefox, and Google Chrome. However, since the latter two are updated continually, some recent versions may not be compatible. If you experience difficulty accessing or using components of the course, try using Internet Explorer. Also, no matter what browser you use, always enable pop-ups. For more information see:

- http://www.untdallas.edu/dlit/ecampus/requirements
- https://blackboard.secure.force.com/publickbarticleview?id=kAB700000008Oom
- https://learn.unt.edu/bbcswebdav/institution/BrowserCheck/check_full.html