



TAMUC Math 1351.001

COURSE SYLLABUS: Spring 2019

INSTRUCTOR INFORMATION

Instructor: **Debra Newton, Mathematics Instructor**

Office Location: **Binnion 319**

Office Hours: **MW 1:00-2:00PM, TR 11:00-12:30, or other times by appointment.**

Office Phone: **903-886-5954**

Office Fax: **903-886-5945**

University Email Address: **Debra.Newton@tamuc.edu**

Preferred Form of Communication: **Email**

Communication Response Time: **Within 48 hours M-F**

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Optional: No textbook is required, but the following text is optional:
Learning Mathematics in Elementary and Middle Schools, 4th (or 5th) edition, by W.
George Cathcart, et al. Published by Pearson Merrill Prentice Hall.

Software Required: None required.

Supplies Needed: Basic calculator and a three-ring binder or folder for handouts. You may also want a ruler (metric and standard), a protractor, scissors, glue stick, stapler, and colored pencils. **Please also use ONLY pencil (no pens) on all exams.**

Technology Requirements: The graphing calculator of TI 83/TI 84 or equivalent will be highly recommended. Calculators other than Texas Instruments calculators may be used but classroom instruction on calculators will be given for TI equipment only.

****Note:** Calculators that solve problems for students, including but not limited to TI-Nspire, TI 89 or higher, Casio Prizm, Casio Touch or higher are **NOT** allowed to be used for this class. **** Students are also required to clear the memory of graphing calculators before and after each exam.**

The syllabus/schedule are subject to change.

Students need to check their e-mail regularly with the address that they have provided to the instructor for class announcements.

Course Description

This course will include content and pedagogy for teaching ratio and proportion, percent, probability, statistics, geometry, and measurement. This course will also address applications of the algebraic properties of real numbers with an emphasis on problem solving and critical thinking. Students should already have substantial skills in these areas. Problem solving is interwoven in all of these topics. The course focuses on underlying concepts and multiple techniques of explaining the concepts. ***You should already know how to do the computations for most of the material. Therefore the goal of this course is NOT to teach simple mathematical computations but to assist you in developing an understanding of mathematics. As a future teacher you must be able to explain mathematics to your students, not just teach rote manipulations of numbers and symbols. You should know and understand more mathematics than what you teach.***

Prerequisite: a “C” or better in Math 1350 (Formerly Math 350).

Course Objectives:

- Develop understanding of mathematics
- Connect ideas within and between mathematical concepts
- Develop mathematical thinking
- Review manipulation of numbers in fraction and decimal form
- Become proficient in solving problems

Student Learning Outcomes: Upon completion of this course, the successful student will be able to:

1. Demonstrate their ability to problems, particularly those involving fractions, decimals, percent, ratio, proportion, probability, statistics, geometry and measurement.
2. Demonstrate a judicious use of technology and manipulatives in the classroom.
3. Explain material to a child through the appropriate use of words, reasoning, drawings, and manipulatives.

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COURSE REQUIREMENTS

Minimal Technical Skills Needed

A successful student in this course will need to have regular access to a computer with internet. Students will also need to check email regularly for class announcements.

Instructional Methods

The goal of this course is to develop understanding of the mathematics covered. We are constantly going to deal with WHY more than HOW. As a future teacher, you must be able to explain mathematics to your students, not just show them how to carry out the mathematical procedures. We will focus on underlying structures and development of ideas. In addition, problem solving is a major component of this course. As a future mathematics teacher, you need to become familiar with and skilled in various types of problem solving techniques that are commonly used in mathematical thinking. Class consists of various styles of presentation and interaction. You will be active participants regardless of the mode of instruction. Instruction will include video lecture, demonstration and models, and hands-on activities. Many types of manipulatives will be demonstrated and used to work with the material.

GRADING

Final grades in this course will be based on the following scale:

- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 59% or Below

Daily Work

Homework: Homework will be assigned most class periods. This work should be done in groups when possible. **It is extremely important for you to work all homework in order to be prepared for the exams.** We will also be working on assignments from Activities books and Supplemental Assignments which will often have to be completed as homework. Selected papers will be turned in for a grade. The total number of assignments that are completed and turned in (punctually) by the student will be reflected in the supplemental assignments grade. A grade will be taken on select problems from each assignment. **In general, late work will not be accepted.**

Quizzes: Homework and quizzes will be averaged together. Both individual and group quizzes may be given; a daily quiz of some kind will be recorded. Since regular attendance is expected, **NO make-up quizzes will be given.** This class covers enough material that there is no time to be missed that is a “good time”, and each quiz will be

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over material to be emphasized on exams. Quizzes will average into your homework grade.

Teaching Assignments/Projects/Labs: There will be several projects assigned this semester. These projects will vary in their scope and should be completed neatly and punctually.

Assessments

Tests:

Tests will be given after a complete chapter or subject area. There will be three “chapter” exams, which may consist of a variety of problems and short answer questions. However, students should expect the bulk of the questions on each test to be problem solving. Partial credit may be given on exams IF all work is neatly shown so that I can easily determine the student’s mistakes. When pictures are drawn, students should be careful that figures are clearly marked and easily understood. Explanations should be explicit and understandable to the audience given. Items should NOT need interpretation if full credit is to be given.

*University Authorized Excuses: 1) Participation in a required/authorized university activity; 2) Verified illness; 3) Death in a student's immediate family; 4) Obligation of a student at legal proceedings in fulfilling responsibility as a citizen; and others determined by individual faculty to be excusable (e.g., elective University activities, etc.)

Tentative Test Schedule:

Test 1 – Week of Wednesday, February 13
Test 2 – Week of Wednesday, March 13
Test 3 – Week of Wednesday, April 24

Replacing a Low Test Grade: **No make-up exams will be given without prior notice of a university excused absence***. At times throughout the semester, emergency situations may arise that affect a student’s performance on an exam or even prevent a student from attending on an exam day. Students can replace the lowest exam grade with their grade on the corresponding portion of the final exam, provided the grade on that section of the final exam is higher. This provision will only be applied to ONE exam, so students should make every effort to be present and well-prepared for all exams.

Minimum Competency Requirement: There is not a “competency exam” for this course. Instead, due to the important role fractions and decimals play in a child’s mathematical career, this course includes a minimum competency requirement over the material on the first exam. All students in this course **must achieve a grade of 75 or higher on the first exam in order to receive a grade of “C” or higher in the course.** If the mastery level of 75% is not achieved on this exam, a retest will be administered outside of class. If the 75% competency is still not achieved, I will look at the section on the final exam, which covers fractions and decimals. If the student achieves 75% mastery on the section of the final exam that covers the first exam, the student will be

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considered to have mastered the material. However, each student should think carefully about the pressure that will be added by depending on the final exam.

Final:

Our final is a comprehensive exam. The Class Schedule gives our time to have our final exam as **Wednesday, May 6th, 1:15 – 3:15pm.** **Do not expect a makeup exam for the final.**

Grading Policy:

<u>Section:</u>	<u>Total:</u>
Daily Work	15%
Teaching Assignments/Projects/Labs	10%
Tests (3 exams)	50%
Comprehensive Final	25%

Each student's average for the course will be posted in your MyLeo account. To access the course, you will go into MyLeo and the "Apps" and look for the app for "MyLeo Online (D2L Brightspace)". You should see directions to choose your course from the course grid that looks like:



Once you have chosen the correct course, you will be able to see your "grades" option.

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

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ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

Students will be expected to interact with the instructor(s) in class or via electronic means in an appropriate manner. All instructor contact information is listed on this syllabus and should be used. Please use email to facilitate a quick response.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Getting Help Outside of Office Hours: The Math Skills Center, located in Binnion 328, is open Monday and Wednesday, 8am – 8pm; Tuesday and Thursday, 8am – 6pm; Friday, 8am – noon. While the department does its best to place quality tutors in the lab, please understand that not all tutors are trained in techniques used in the Elementary Education Math courses. For information on which tutors would be best to help, and when they are working, feel free to see me or the bulletin board outside the lab.

Comments: I will do my best to make a quality presentation each day and, in return, I expect that you will do your best to learn the material presented in class and in the text. This course will be taught as hands-on as possible, and student participation is necessary daily. It is important that you be actively engaged in any group activities. Questions are welcome in the classroom, and I will gladly schedule outside help sessions if necessary. I know that together, these efforts can contribute significantly to your education in this class. Appropriate classroom behavior is required to attend this

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class. All cell phones and other similar devices must be put on silent during class. Phones are a distraction for me and the other students in the class. All people will be treated with respect and I will not allow talking that will disrupt my lectures. If disruptions occur during class lectures, you will be asked to leave class and will earn a zero on any applicable grades for that class period. Serial disrupters will be asked to withdraw from my class.

I will be taking roll every day. All students are expected to be present daily. If you miss a class, come see me AFTER class for any missed assignments. **Please do not approach me before class**, unless it is an emergency, so that we might start ON TIME.

Students who are absent more than 6 times, for whatever reason, are subject to the instructor dropping them from the course. Four absences in this course constitutes missing 1/5 of the course, which is a very large fraction of material for a student to miss. Any student who is close to this number of absences should come to the instructor before they accumulate four absences in the course. I will NOT automatically drop you from the course. Therefore, if you intend to drop the course, you will need to follow the drop procedures of the school. If I intend to drop you from the course, you will receive an email from me at the address you have given me on my student information sheet.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx).
<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:
<https://www.britannica.com/topic/netiquette>

TAMUC Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).
<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

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<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Academic Integrity

As stated in the Student Handbook, academic dishonesty in the class will not be tolerated. If any materials or equipment are found to be available to the student at any time, which is considered inappropriate by the instructor, the very fact that the materials are inappropriately available to the student is grounds for an accusation of academic dishonesty. The instructor reserves the right to fail the student for the assignment or the course, as well as report the student to the Academic Dean, the Dean of Students, and the Committee for Academic Retention in Teacher Education. The above committee and deans have the ability to terminate a student's participation in the teacher education program. They also have the ability to terminate the student's enrollment in the University. The instructor considers this an extremely serious matter. Please make sure you are not in a situation that could be viewed negatively.

I find that a majority of students are honest in doing their school work. However, we must take measures to protect the academic integrity of the classroom. **Some forms of academic dishonesty include, but are not limited to:**

- Giving or receiving answers during an exam or quiz.
- Viewing the exam or quiz answers of nearby classmates.
- Having notes/practice work/etc. available during quizzes or tests.
- Possession or access to test items before the test is given.
- Deception in getting an excused absence to obtain the undeserved opportunity to make-up work.
- Use of cell phones or text messaging technology during exams or quizzes. **You may not use the calculator on your cell phones or other such devices. These must be put away during exams and quizzes. HAVING THESE AVAILABLE DURING AN EXAM OR QUIZ WILL CONSTITUTE GROUNDS FOR RECEIVING A ZERO.**
- Improper citations in written works, or using another person's ideas and words as your own without giving proper credit.
- **Any** method, no matter how well rationalized or accepted, which improves a person's grade by any means other than study and skillful performances on exams and/or other assignments.

Students found guilty of an act of academic dishonesty in this course will be subject to receiving an "F" in this course, as well as the above-mentioned disciplinary actions.

Specific additional disciplinary action for these offenses may include any combination of the following:

- Point deduction of an assignment
- Failure of an assignment
- A grade of zero for an assignment
- Failure of this course

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- Referral to the Academic Integrity Committee or department head for further action
- Referral to the Dean of the College of Education and Human Services, and other deans as appropriate
- Referral to the University Discipline Committee
- Communication of student's behavior to the Teacher Certification Office as constituting a reason to bar student from entering into or continuing in a teacher certification program (Procedures A 13.04, 13.12, 13.31, and 13.32)

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

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Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

Tentative Schedule for Math 1351:

Week 1 (Jan. 14-18):	Introduction to Fractions/Fraction Sense
Week 2 (Jan. 21-25):	Fraction Operation Review
Week 3 (Jan. 28-Feb. 1):	Introduction to Decimals/Terminating and Non-Terminating
Week 4 (Feb. 4-8):	Decimal Operation Review and Exam 1
Week 5 (Feb. 11-15):	Ratio/Proportion
Week 6 (Feb. 18-22):	Applications with Ratio and Proportion
Week 7 (Feb. 25-Mar. 1):	Introduction to Percent
Week 8 (Mar. 4-8):	Applications with Percent/Probability and Statistics
Week 9 (Mar. 11-15):	Probability and Statistics and Exam 2
Week 10 (Mar. 25-29):	Introduction to Geometry
Week 11 (Apr. 1-5):	Projects with Geometry
Week 12 (Apr. 8-12):	Applications with Geometry/Introduction to Measurement
Week 13 (Apr. 15-19):	Measurement Applications and Classroom Activities
Week 14 (Apr. 22-26):	Exam 3
Week 15 (Apr. 29-May 3):	Review for Final
Week 16 (May 6-10):	Finals Week: Final Exam on Monday, May 6th 1:15-3:15PM

Remaining enrolled in this course constitutes acceptance of all policies contained in this syllabus.

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