Course Syllabus: Math 350 – Math for Teachers I Spring 2017 ONLINE

Instructor: Dr. Brenda Reed   **Office Location:** Corsicana Campus
Office Hours: M, W 8 – 11 T, TH10 -11, F 8 - 9   **WCB, Rm 110**
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I may be reached by email. I check them daily. You can come see me in person during my office hours, but please note that I am located on the Corsicana campus with the TAMUC partnership program. You may also call me during my office hours listed above.

COURSE INFORMATION

Material Required: Students must purchase a copy of **MyMathLab/MyLab & Mastering student access code** from either of the campus bookstores or directly from Pearson at http://www.coursecompass.com.
The text book is contained as an ebook within the My Math Lab site, so it is not necessary to purchase it. If you would like a book, the information is: TEXT: A Problem Solving Approach to Mathematics, 12th edition by Billstein, Libeskind, and Lott
Your MyMathLab Course ID is: reed95912

Please use the MyMathLab 14 day free trial to start working on homework if students cannot purchase it right away. The MyMathLab student access code must be purchased by the end of 2nd week of class to prevent a loss in points.

Course Description: Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. A student will earn three credit hours upon successful completion of this course. Prerequisites: Math 1314 or its equivalent.

Student Learning Outcomes: Upon completion of this course, students will be able to:

1. Extend a given pattern and identify a linear function based on the pattern.
2. Demonstrate an understanding of sets and their unions, intersections, and complements.
3. Work in number systems other than base ten.
4. Demonstrate knowledge of properties numbers.
5. Demonstrate mastery of critical thinking.
6. Evaluate problems with rational numbers.
7. Evaluate problems with integers.
8. Use number theory to evaluate the GCD and LCM of a given set of numbers.

COURSE REQUIREMENTS

Instruction: Instruction will include videos to watch, online homework problems to complete, and some modeling projects throughout the course.

Attendance & Continual Enrollment: To be counted as having attended this class for each week, you will need to be actively using MyMathLab for instructional videos and working assignments online every week. You will communicate with your instructor through email, phone, and eCollege throughout the semester. Please respond to instructor's emails in a timely manner.

It is important that you understand that this is an online math course. You will utilize online videos, online homework, tutoring on campus, and appointments with instructors. Please keep in mind that you will be responsible for your own

learning. You will have a specific schedule with important due dates, and failure to meet these due dates can result in an F for the course.

If students represent an athletic team for this university, departmental team, scholastic team, choir, or other group and must miss class, notify me in writing with the appropriate documentation within one week of the absence in order not to be counted absent. Arrangements for make-up work will be made at that time.

Homework: Homework will be assigned every week. The homework is a must for success in this class. *****Students are required to complete homework using MyMathLab/MyLab software.*** Homework is due by the posted due dates on ecollege and in MyMathLab.** It is extremely important for you to work ALL homework in order to be prepared for the exams. If you are not keeping up with the work in the course, it will most likely be obvious in your homework and test grades.

If a student experiences any technical difficulties with MyMathLab, be sure to use the online help and technical support from the software company. If a student continues to have trouble accessing or navigating the software, please contact instructor through email or come by his/her office during office hours for some individual help.

Tutoring: Students can choose to attend tutoring in the Math Skills Center, TRIO, Supplemental Instruction tutoring sessions, and other on campus tutoring sessions that are approved by the Mathematics Department.

The **Math Skills Center**, located in Binnion 328, is open *Monday and Wednesday from 8am – 8pm, Tuesday and Thursday from 8am – 6pm, and Friday from 8am – 12pm.* Free tutoring is available for students who need help with their math courses. In addition, the **Academic Success Center also offers supplemental instruction/tutoring for students and their hours can be found at the university web site.**

The **Mach III/TRIO Program** is available for students who qualify for additional resources, such as private tutoring. In order to qualify, students must meet certain conditions, such as being a first-generation college student. For more information, contact TRIO at 903-886-5833 or in the Halladay Student Services building, Room 300.

Exams: **There will be two (2) exams this semester (a midterm and a final). These exams will be HAND-WRITTEN and must be taken on campus at the <u>Academic Testing Center (SS 308)</u> in Commerce, TX or at the <u>nearest approved testing </u>center, if you live far away from Commerce. <u>You will have 2 hours for each </u>exam.** Partial credit <u>may</u> be given on exams IF all work is neatly shown for determination of the student's mistakes. **CELL PHONES AND OTHER ELECTRONIC DEVICES MUST BE TURNED OFF AND STORED OUT OF THE STUDENT'S REACH.** <mark>**Calculators are not allowed on either exam, so please study accordingly.**</mark>

You will be responsible for scheduling a time with the Academic Testing Center (ATC) in Ferguson (Social Sciences building room 308) or with the nearest approved testing center. The operating hours for ATC are Monday through Thursday 10 a.m. to 6 p.m., and Friday 10 a.m. to 3 p.m., walk-ins only. The midterm exam will be taken March 6th – March 9th. The final exam will be taken on either May 8th or May 9th. Please make sure you note testing center closing times and be sure you have 2 hours for the exam.

No make-up exams will be given without prior notice of a university excused absence*.
*See information below

These test dates are tentative and are subject to change:
Midterm Exam   March 6th – 9th
Final Exam   May 8th or 9th

* 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.)

GRADING

Grading Policy:

Homework Grade (My Math Lab and any other assignments)	40%
Midterm Exam	30 %
Final Exam	30 %
Total	**100%**

Grade: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 or below

TECHNOLOGY REQUIREMENTS

Technology Requirements:

Students need to check their e-mail regularly with the address that they have provided to the instructor for class announcements. Access to MyMathLab, a computer, and the internet will be needed for online homework assignments.

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement: It is important that students are actively engaged in class activities. Questions are welcome in the classroom. Students are welcome to schedule with instructors for extra help outside classroom during office hours**.**

Getting Help Outside of Office Hours: Utilizing the **multimedia library and online help from the MyMathLab** computer software program is suggested as a valuable resource for many students to improve their grades in Math classes. Also, the free tutoring on campus and from online is also highly recommended.

Student Health Services are located at Henderson Hall (Corner of Lee St. and Monroe St.). It offers health care to the student body of Texas A&M University – Commerce. It provides primary health care services including treatment of illness, injury, and women's health. **Tel:** (903) 886-5853.

University Police Department is located at Henderson Hall. For Emergency, please call: 911
For Non-Emergency, please call: 903.886.5868

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Academic Integrity: While majority of students are honest in doing their school work. However, due to recent cheating events, action must be taken to protect the academic integrity of classrooms**. There is a NO TOLERANCE policy for cheating and if a student is caught cheating, he/she will either get a zero for the test or fail this course.** Cheating in this course is defined as the following:

- Giving or receiving answers during an exam or quiz.
- Viewing the exam or quiz answers of nearby classmates.
- Having notes/practice work 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. **Students may <u>NOT</u> use the calculator on their cell phones or any other similar electronic devices (such as I-Pods, I-Touch, etc.). IF ONE OF THESE DEVICES IS AVAILABLE, <u>IN ANY WAY</u>, DURING AN EXAM OR QUIZ, THE STUDENT WILL BE GIVEN AN AUTOMATIC "0" ON THE ASSIGNMENT.**
- 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.

Classroom Behavior: Appropriate classroom behavior is required to attend this class. All cell phones and electronic devices must be put on silent or turned off during class. NOTE: THIS INCLUDES BLUETOOTH AND OTHER DEVICES THAT ARE PLACED IN THE EAR. Phones and electronics are distractions for instructor and the other students in the class. All people will be treated with respect and talking that disrupt the class is not allowed. If disruptions occur during class time, a student 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 this class.

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 132, Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, StudentDisabilityServices@tamuc.edu

Student Conduct: *** "All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (Student's Guide Handbook, Policies and Procedures, Conduct). Rude and/or disruptive behavior will not be tolerated. No electronic devices (except calculators) are allowed during class time. Cell phones, smart watches, and other electronic devices are to be put away during class time and exams. *** The use of vapor/e-cigarettes, smokeless tobacco, snuff and chewing tobacco are prohibited inside classrooms and university buildings.

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 (http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf) and/or consult your event organizer). 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.

This statement presents the University's commitment to a safe, accepting environment for all students regardless of sexual orientation, gender identification, or gender expression: A&M-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.

COURSE OUTLINE

Due 1/24   Complete Orientation Homework on MML (My Math Lab)
                Complete Assignment titled Chapter 1 on MML – this is a PowerPoint and a video covering section 1.1 material
                Complete Homework Chapter one on MML
                ***ICEBREAKER Discussion (located on ECollege)
***If you need extra assistance for this weeks assignment, there are problem solving videos located in ECOllege that you can view. You can also go under Study Plan in MML and view practice problems, notes, etc…

Due 1/31   View all podcasts in ECollege that cover different base systems

Complete Different Base Systems and Chapter 3 Section 1 in MML

Due 2/3   Complete Adding and Subtracting videos, adding manipulatives, and adding and subtracting in different bases in MML.
               ***Discussion on bases (located in ECollege)

               ***There are more example problems in ECollege. While you do not have to turn these in, make sure you go over them. You will see problems similar to these on the midterm exam.
***If you need extra assistance for this week's assignments, you can go under Study Plan in MML and view practice problems, notes, etc…

Due 2/14   View all podcasts in ECollege that cover Venn diagrams word problems
               Complete the assignments Venn diagram videos and Venn diagrams in MML.
                       *** Discussion 3 (located in ECollege)
               Access the Extra Venn Practice sheet located under the Venn Diagram tab in Blackboard. Practice these types of problems. Then, complete the following problems and send the answers to me via an email.
1. $A \cup B \cap C$
2. $\overline{(A \cup B)} \cup C$
3. $A \cup (B \cap \bar{C})$
4. $A \cap \bar{B} \cup C$
5. $\bar{A} \cap B \cup C$

Due 2/21   Complete Properties Media and Properties of Numbers Homework in MML

Due 2/28   Complete Divisibility Media and Section 4.1 -Divisibility Rules in MML

Due 3/9   Work on midterm exam review (this is a grade!) Also make sure to go over the extra Venn diagram problems and the extra bases problems.
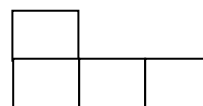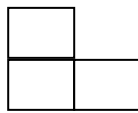   **** Discussion 4(located in ECollege)

3/6 – 3/9   **Take midterm exam at a testing center. Remember that you cannot use notes or a calculator.**

Due 3/21   View all podcasts on the five step problem in ECollege
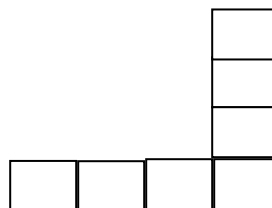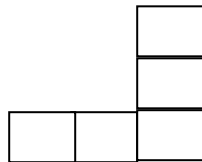   Complete the following homework problems and either scan or email it to me.

               Complete all five steps with the following patterns: (step 1 is draw the next two elements, step 2 is write a word problem, step 3 is create a numerical table, step 4 is create a graph, and step 5 is find the algebraic equation)

               Pattern 1.

               Pattern 2

               *** DISCUSSION 5 (located in ECollege)

Due 3/28   Complete Prime and Composite PP and section 4.2 – prime and composite in MML

Due 4/4   Complete GCD Media and Chapter 4.3 GCD and LCM in MML
                  **** DISCUSSION 6 (located in ECollege)

Due 4/11   View all podcasts in ECollege that cover chips and number lines with integers
                  Complete the assignment on MML titled Integers Media, Integers Manipulatives and Chapter 5
                  Homework

Due 4/18   Complete Adding Fractions Media, Fractions Manipulatives, and Homework Chapter 6 Sections 1 and 2
                  in MML
***If you need extra assistance for this week's assignment, you can go under Study Plan in MML and view practice
problems, notes, etc…

Due 4/25   Complete Multiplying fractions media and Chapter 6 Homework 3 in MML
***If you need extra assistance for this week's assignment, you can go under Study Plan in MML and view practice
problems, notes, etc…
                  **** DISCUSSION 7 (located in ECollege)

Due 5/9   Complete the final exam review in MML (this is a grade!) In addition to this review, make sure to
                  review the five step problem since this topic will be on your final exam.
                  **** DISCUSSION 8 (located in ECollege)

5/8 or 5/9**Take final exam at a testing center. Remember that you cannot use notes or a calculator.**   Make sure
                  you complete the review before you take your exam.

** By Remaining Enrolled In This Course, All Students Agree To Abide By The Policies Of This Class, As Stated In
The Syllabus ***