South Plains College
Department of Mathematics and Engineering
MATH FOR TEACHERS I: 1350.001
Spring 2018 Course Syllabus

Instructor: Kaylan K Thompson
Office: M111
Telephone: (806) 716-4886
Email: kthompson@southplainscollege.edu

Office Hours: As listed or by appointment.

Monday	Tuesday	Wednesday	Thursday	Friday
9:00 – 10:00	1:00-2:30	9:00 – 10:00	1:00-2:30	9:00-12:00

Course Description: This course is designed to provide the prospective elementary/junior high school teacher with some background in elementary analysis. This course is a requirement for the Associate of Arts in Teaching (AAT) degree. Pre-requisite: MATH 1314.

Course Objectives: To successfully complete this course, you must master 70% of the following objectives:
- Analyze numerical and geometric patterns and express them mathematically in words or in symbols.
- Use problem solving strategies and algebraic thinking.
- Use set notation and Venn diagrams.
- Define, add, subtract, multiply, and divide whole numbers, integers, rational numbers, decimals, and real numbers.
- Identify functions, evaluate functions, and write functions in algebraic notation.
- Convert numerals in the Hindu-Arabic numeration system into the Roman numeration system and other number base systems and vice versa.
- Determine if a number is prime or composite.
- Determine the greatest common divisor and least common multiple of a set of numbers.
- Solve proportions.
- Convert decimals and fractions into percent and percent into decimals and fractions.

Core Objectives: Communication Skills:
- Develop, interpret, and express ideas through written, oral, and visual communication

Critical Thinking:
- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills:
- Manipulate and analyze numerical data and observable facts, and arrive at an informed conclusion

Textbook: A Problem Solving Approach to Mathematics for Elementary School Teachers, 12th edition, by Billstein, Libeskind, & Lott.

Supplies: Pencils, erasers, 3-ring binder, notebook paper, calculator (when allowed)

Attendance:

Attendance and effort are crucial for success in this course. Record of your attendance will be maintained throughout the semester. Leaving class early and being tardy will be recorded as ½ of an absence. Sleeping in class will also be recorded as an absence. You may be dropped from this course with a grade of X or F if you are absent four consecutive days or if you accrue five absences for any reason throughout the semester. Absences are not classified as 'excused' or 'unexcused'.

Student Responsibilities & Expectations:
- **Come to class on time and prepared to learn. (Pencil, book, notebook, calculator, ect.)**
- Read the syllabus.
- **Good study habits are essential for success.**
- Take notes, participate in class, and complete course assignments early enough to seek help if needed.
- Food and drink are NOT allowed in the classroom with the exception of bottled water.
- Cell phones and any other electronic devices must be silenced and put away before entering the classroom. Use of these devices during class will result in a zero for that day's quiz, homework, or exam.

Grading:

Homework/Quizzes/Activities/Mini Lessons	15%	**Grading Scale:**	A 90-100
Detailed Lesson Plan	10%		B 80-89
Unit Exams	60%		C 70-79
Final Exam	15%		D 60-69
			F 59 or below

Homework: Homework will be assigned for each section on MyMathLab (MML). The Course ID is **thompson83726** and the zip code is **79336**. Although the homework is done online, the problems should be worked neatly either in a spiral or notebook paper in pencil.

Quizzes: Quizzes will also be assigned on MML. Again, the problems should be worked neatly in either a spiral or on notebook paper in pencil.

Activities: There will be activities on a regular basis. You will receive a grade for your participation in these activities. If you are absent on the day an activity is given, you will receive a zero for that activity.

Mini Lessons: Each student will be required to prepare and teach mini lessons throughout the semester. If you are absent on the day you are to teach a lesson, you will receive a zero.

Detailed Lesson Plan:

Each student will write a detailed lesson plan. More information will be given in class. A grading rubric will also be provided.

Exams: There are 4 unit exams (15% each) and a comprehensive final exam (15%). Dates for the exams are given on the course calendar. If for any reason you are unable to take an exam at the designated time you must contact me prior to class time. Make-up exams will be given at the discretion of the instructor.

Religious Holy Days: In accordance with Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code. (copied from current South Plains College catalog)

Equal Opportunity: South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.

Disability Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers ATC) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

Sexual Misconduct Statement: As a faculty member, I am deeply invested in the well-being of each student I teach. I am here to assist you with your work in this course. If you come to me with other non-course-related concerns, I will do my best to help.

It is important for you to know that all faculty members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct confidential if you share that information with me. Dr. Lynne Cleavinger, the Director of Health & Wellness, can advise you confidentially as can any counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach Dr. Cleavinger at 716-2563 or lcleavinger@southplainscollege.edu or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529.

Campus Concealed Carry syllabus statement:
Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College 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 South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at:
(http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php)

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

Fundamentals of Mathematics I Tentative Course Calendar Spring 2017

This is a tentative schedule. Changes will be announced in class.

MATH 1350.001 – MW 2:30 – 3:45 PM

Wk	Day	Date	Lesson
1	**Monday**	**January 15**	**Martin Luther King Day Holiday**
	Wednesday	January 17	1-1 Mathematics and Problem Solving
2	Monday	January 22	1-2 Explorations with Patterns
	Wednesday	January 24	2-2 Describing Sets
3	Monday	January 29	2-2 Other Set Operations and Their Properties
	Wednesday	January 31	3-1 Numeration Systems
4	**Monday**	**February 5**	**Exam 1—Chapters 1 & 2 and Section 3-1 (15%)**
	Wednesday	February 7	3-2 Addition and Subtraction of Whole Numbers 3-3 Multiplication and Division of Whole Numbers
5	Monday	February 12	3-4 Mental Mathematics and Estimation for Addition and Subtraction 3-5 Mental Mathematics and Estimation for Whole-Number Operations
	Wednesday	February 14	4-1 Divisibility
6	Monday	February 19	Class Cancelled
	Wednesday	February 21	4-2 Prime and Composite Numbers
7	Monday	February 26	4-3 Greatest Common Divisor and Least Common Multiple
	Wednesday	**February 28**	**Exam 2—Chapters 3 & 4 (15%)** **Lesson Plan Due**
8	Monday	March 5	Lesson Plan Presentations
	Wednesday	March 7	Lesson Plan Presentations
			SPRING BREAK—MARCH 12 – 16
9	Monday	March 19	5-1 Integers and the Operations of Addition and Subtraction 5-2 Multiplication and Division of Integers
	Wednesday	March 21	6-1 The Set of Rational Numbers
10	Monday	March 26	6-2 Addition, Subtraction, and Estimation with Rational Numbers
	Wednesday	March 28	6-3 Multiplication and Division of Rational Numbers
11	**Monday**	**April 2**	**Easter Holiday (No class)**
	Wednesday	April 4	6-4 Ratios, Proportions, and Proportional Reasoning
12	**Monday**	**April 9**	**Exam 3—Chapters 5 & 6 (15%)**
	Wednesday	April 11	7-1 Introduction to Decimals
13	Monday	April 16	7-2 Operations on Decimals
	Wednesday	April 18	7-3 Nonterminating Decimals 7-4 Percent and Interest
14	Monday	April 23	8-1 Real Numbers 8-2 Variables
	Wednesday	April 25	8-3 Equations 8-4 Functions
15	**Monday**	**April 30**	**Exam 4—Chapters 7 & 8 (15%)**
	Wednesday	May 2	Review for Comprehensive Final Exam
16	**Monday**	**May 7**	**Comprehensive Final Exam (15%) (1:00-3:00)**

Important Dates: January 15: Martin Luther King Holiday
 March 12 – 16: Spring Break
 April 2: Easter Holiday
 April 26: Last Day to Drop