

# Math 3308

## Survey of Basic Math Theory I

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Office Hours  
W: 9:00-10:00

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**Catalog description:** Sets and Whole Numbers, Numeration Systems, Number Theory and Integers.

**Pre-requisites, co-requisites, and other requirements:** Math 1314

Text: Mathematical Reasoning for Elementary Teachers, 7<sup>th</sup> Edition, Long, DeTemple and Millman.

### CHAPTER 2 – SET AND WHOLE NUMBERS

- 2.1 Sets and Operations on Sets
- 2.2 Sets, Counting and the Whole Numbers
- 2.3 Addition and Subtraction of Whole Numbers
- 2.4 Multiplication and Division of Whole Numbers

### CHAPTER 3 – NUMERATION AND COMPUTATION

- 3.1 Numeration Systems Past and Present
- 3.2 Algorithms for Addition and Subtraction of Whole Numbers
- 3.3 Algorithms for Multiplication and Division of Whole Numbers
- 3.4 Mental Arithmetic and Estimation
- 3.5 Nondecimal Positional Systems

### CHAPTER 4 –NUMBER THEORY

- 4.1 Divisibility of Natural Numbers
- 4.2 Tests for Divisibility
- 4.3 Greatest Common Divisors and Least Common Multiples

### CHAPTER 5 – INTEGERS

- 5.1 Representations of Integers
- 5.2 Addition and Subtraction of Integers
- 5.3 Multiplication of Integers

## Course requirements and policies:

### A. Grade Requirements

Grading Procedure:	4 Tests (lowest score dropped) Homework Final Exam (Comprehensive)	60% 20% 20%
Test Schedule	Test 1 (Chapter 2) Test 2 (Chapter 3) Test 3 (Chapter 4) Test 4 (Chapter 5) Final Exam	July 18 July 25 August 1 August 8 August 10
Make-up Policy:	Makeup exams will be granted only in cases of medical and legal obligations. Student must provide a medical or legal document. A student may request to take a test early. It is at the discretion of the instructor whether to grant the request. Otherwise, a missed test will be dropped as your lowest test grade.	
Extra Credit	An Extra Credit assignment will be offered for each of the 4 tests. These assignments are optional and not required. Each assignment will be worth a maximum of 10 points to be added to your test score.	
Homework	The homework grade is based on the number of points earned on homework worksheets. A worksheet for each section covered in class will be posted on Blackboard. Keep your worksheets organized and in a folder. Turn in your homework folder with each test.	
Grade Determination:	<u>Final Average</u>	<u>Letter Grade</u>
	90-100	A
	80-89	B
	70-79	C
	60-69	D
	0-59	F

### B. Policies:

**Technology Requirement:** Calculators can be used in class. But calculators will not be allowed on the tests or the final exam.

**ADA Statement:** "As per Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, if accommodation is needed notify me as soon as possible. Sul Ross State University is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact Mary Schwartze, M. Ed., L.P.C., in Counseling and Accessibility Services, Ferguson Hall, Room 112. The mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Telephone: 432-837-8691. E-mail: mschwartz@sulross.edu .

**Academic Dishonesty:** Students may be subject to disciplinary proceedings resulting in an academic penalty or disciplinary penalty for academic dishonesty. Academic Dishonesty includes, but is not limited to, cheating on a test, plagiarism and collusion.

**Electronic Devices:** Students are required to silence all electronic devices (cellular phones, etc.) when in classrooms, laboratories and the library.

**Attendance:** A student absent for any reason is responsible for all work missed.

**PowerPoint Lecture Notes:** PowerPoint Lecture notes will be made available through Blackboard. A copy of the syllabus is also available via Blackboard.