

## MATH 203 – INTRODUCTION TO NUMBER STRUCTURE

Section: 001

Winter Quarter, 2016

Classroom: GTMH 304

INSTRUCTOR: Dr. Charles Patterson

Office: GTMH 332

Phone: 257-2538

Office Hours: 10:30-11:00 & 2:00-3:00 M / 10:30-12:30 & 1:00-5:00 T / 10:30-11:00 & 2:00-5:00 W /  
10:30-12:30 & 1:00-3:00 R / F by Appointment

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**COURSE PREREQUISITES:** Credit for Math 100 or Math 101 or Math 102.

**COURSE GOALS:** To acquire an understanding of mathematics which is considerably broader and deeper than what you will be expected to teach, develop number sense and mathematical intuition, learn from experience that mathematical understanding begins with concrete models then progresses through verbal, numerical, and finally abstract stages in using number systems and arithmetic operations.

**TEXTBOOK:** Mathematical Reasoning for Elementary Teachers (7th edition) by Long, DeTemple, & Millman

**CALCULATOR POLICY:** The use of calculators will not be permitted.

**ATTENDANCE REGULATIONS:** Read the “Class Attendance” section of the Tech Bulletin which says in part that “Class attendance is . . . an obligation . . . and all students are expected to attend REGULARLY and PUNCTUALLY.” *If you miss two consecutive class meetings, you must contact me by the following class meeting to discuss your reason for absence and to notify me of your plans to remain enrolled in the class.* Excuses for absences must be submitted within three class days after return to class. Respectfully pay attention for the entire period. ***Please turn off all cellular phones and pagers before entering the classroom.***

**GRADE DETERMINATION PROCEDURE:** The instructor will schedule 3 tests worth 125 points each. Homework assignments will be made each class meeting and students are expected to complete all assignments. The Homework grade will count at most 25 points and will include quizzes. A Venn Diagram Project will also be assigned and will count 25 points. The 25 possible points for Homework and 25 possible points for Venn Diagram Project will be averaged with the three test grades to determine a student’s grade in the class. *In the event of a question regarding an exam grade or final grade, it will be the responsibility of the student to retain and present graded materials which have been returned for student possession during the quarter.*

**LATE HOMEWORK/MISSED EXAMS:** No make-ups will be allowed for homework, in-class work, or quizzes. Make-ups will be allowed for exams only in the case of an excused absence (generally a doctor’s excuse which I have called and verified or an official university excuse). You must contact me by the class meeting following a missed exam to discuss your reason for missing the exam and to determine the possibility of a make-up exam. Make-ups will be another exam or a comprehensive final exam as specified by me.

**HONOR CODE AND ACADEMIC MISCONDUCT POLICY:** In accordance with the Academic Honor Code, students pledge the following: Being a student of higher standards, I pledge to embody the principles of academic integrity. If it is determined that academic misconduct has occurred, the penalty may range from dismissal from the University to a failing grade in the course. For more details on the honor code, refer to <http://www.latech.edu/documents/honor-code.pdf>.

**GRADE SCALE:** The usual grading scale will be used:

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

**STUDENTS NEEDING SPECIAL ACCOMMODATIONS:** Students needing testing accommodations or classroom accommodations based on a disability are encouraged to discuss the need with me as soon as possible. For more details on the Office of Disability Services, refer to [www.latech.edu/ods](http://www.latech.edu/ods).

**EMERGENCY NOTIFICATION SYSTEM:** All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure you’re able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit <http://ert.latech.edu>.

## MATH 203 HOMEWORK ASSIGNMENTS

Section	Page	Assignment
1.1	p.6	#1-3, 7, 8, 10, 12, 13abd, 14, 17
1.2	p.17	#1, 2, 7, 10, 11, 18, 21, 23
1.3	p.28	#1, 2, 3ab (also find sum), 4, 5, 9, 10, 13, 20, 27
1.4	p.39	#1
1.5	p.47	#3bc, 4, 5, 6, 8, 9, 10, 12, 14, 15, 16a, 18, 19, 29, 30, 31
2.1	p.75	#1-4, 5abc, 6ac, 7-10, 12, 17, 22, 23, 32-36
2.2	p.84	#3-5, 13, 14ad, 15, 17-19, 26-28, 40-45
2.3	p.97	#1-4, 6-9, 11-13, 15, 16, 19-21, 30, 31, 42-48
2.4	p.114	#1, 2, 5, 7-10, 15, 18, 19, 21, 37, 38, 48-53
3.1	p.135	#1de, 2cd, 6, 13-19, 21, 26-32
3.2	p.144	#1-4, 7, 9, 10, 16, 17, 26, 27, 29-33
3.3	p.153	#3, 4, 6-10, 12-15, 23, 24, 29, 31-34
3.4	p.164	#8, 9, 12, 13, 17, 18, 32-38
3.5	p.175	#1, 3-8, 10-19, 22
4.1	p.194	#3, 4, 9-19, 25-27, 41-43
4.2	p.203	#1, 3, 12-15, 26-28
4.3	p.212	#1, 2bc, 3, 4bc (also do #1-4 by prime factorization), 5, 6, 17, 18, 23, 24, 29, 30, 36-41
6.1	p.276	#1-8, 11-15, 17, 19, 21, 22, 25-27, 30-33, 42, 47-50, 52
6.2	p.288	#1, 3-5, 7, 8, 9 (parts a and b use circles), 10, 14, 15, 20-23, 35-37
6.3	p.302	#1, 7, 8, 10-15, 22, 39, 43, 45-47
6.4	p.313	#16, 19, 20, 45-47
7.1	p.337	#1-3, 7-10, 13, 23, 25, 38-41
7.2	p.344	#1-4, 17, 18, 21, 22, 35-42
7.3	p.358	#1-3, 5ab, 6abdf, 7, 8, 28, 29, 31, 43-47
7.4	p.368	#1, 3-5, 8, 9, 11, 12, 14, 18, 21, 22, 42-46
5.1	p.230	#1-4, 12, 17, 18
5.2	p.245	#1, 2, 7-10, 12-14, 26, 27, 39, 41
5.3	p.255	#1-4