

Sets and Logic
Math 260, Spring 2013
12:00-12:50 p.m. daily, Bouillon 101

Instructor: Dr. Fassett
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Text: Mathematical Reasoning: Writing and Proof, 2nd Edition by Ted Sundstrom.

Course Description: Math 260 is intended as a “transition course” from the calculus sequence to a more formal development of mathematics. We will cover Chapter 1 through Chapter 5 of the text with additional material introduced as time permits.

Course Goals: Upon successful completion of the course, the student will be able to:

- read and understand mathematical definitions and proofs;
- construct the basic forms of a proof: direct, contraposition, contradiction, induction;
- write mathematical proofs according to accepted guidelines;
- work with existential and universal quantifiers;
- communicate verbally and in writing so that their work and reasoning can be understood by others.

Course Policies:

Attendance: Daily attendance is expected and considered necessary for success. Please bring the text, a writing utensil, and paper to each class meeting. We will spend a lot of time working in groups and sharing our findings with the class. You are expected to participate in these activities (see below). You are responsible for any announcements made during class regarding homework and exams.

Homework: Homework will be assigned and selected problems will be turned in for grading. Homework will count for up to 100 points. Problems turned in for grading will be organized and neatly presented or they will not be graded. Some classroom time will be spent working in groups on problems to be turned in.

Class Participation: Participation in classroom activities will count for up to 25 points. These activities will occur throughout the quarter and will not necessarily be announced in advance.

Missing class on days when activities are assigned will lower your participation score. You do not need to be an extrovert (most of us math folk are not) to earn full participation points. I only require you to be involved.

Exams: There will be two 100-point exams announced in advance. No exam score will be dropped. If you miss an exam and have not made prior arrangements with me, a score of “0” will be recorded. Make-up exams will only be allowed in extreme cases.

Final Exam: There will be a comprehensive 100-point final exam.

Course Grades: Course grades will be based upon the following point distribution

Two exams (100 pts. each)	200 pts. (47%)
Homework	100 pts. (23.5%)
Participation	25 pts. (6%)
Final Exam	<u>100 pts. (23.5%)</u>
Total	425 pts.

The following scale will be used to determine course grades:

100-92% = A	76.9-73% = C+	below 57% = F
91.9-88% = A-	72.9-70% = C	
87.9-84% = B+	69.9-67% = C-	
83.9-80% = B	66.9-63% = D+	
79.9-77% = B-	62.9-60% = D	
	59.9-57% = D-	

I reserve the right to adjust the above scale (in the student’s favor) if deemed appropriate.

Students with special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact the Director of Disability Support Services at 963-2171 (TTD 963-2143).