

Sets and Logic

144 Bouillon, MTWThF, 9:00 - 9:50 A.M.

Instructor: Dr. Tim Englund**e-mail:** englundt@cwu.edu**Office:** 108C Bouillon**Office phone:** 963 - 1759**Homepage:** <http://www.cwu.edu/~englundt>**Office Hours:** 11:00 – 12:00 MWF, 2:00 – 3:00 TR, or whenever my office door is open (although 9:00 – 11:00 am and 12:00 – 2:00 pm will usually be a bad time). Of course, if none of these times will work for you, please feel free to make an appointment.**School Closure:** Phone 963-2345 for messages if CWU closure after 6:45 A.M.**Final Exam:** Thursday, March 17, 8:00 – 10:00 am**Textbook:** *An Introduction to Mathematical Thinking*, by Gilbert and Vanstone.**Course Goals:** Math 260 is intended as a transitional course from more computation-based courses to the more abstract courses. As such we will focus on proof writing, sets theory, and logic.**Outcomes:** Upon successful completion of this course, a student will be able to read and understand mathematical definitions and proofs, construct proofs (including direct, contrapositive, contradiction and inductive proofs) according to accepted guidelines, work with existential and universal quantifiers, and communicate verbally and in writing their work.**Course Conduct:** The textbook is required and daily attendance is expected. Daily homework assignments will be announced in class. All exams will be announced in advance. Quizzes may or may not be announced in advance.**The Spotlight Problem of the Day:** Random problems from various assignments will be collected and evaluated. Although these will not directly contribute to your final grade, they will serve as a measure of your understanding of the ideas presented and of your engagement with the course.**A Word of Advice:** Many of the ideas introduced and most of the techniques used to explore these ideas will be essentially new to you. You should, consequently, expect to commit an **absolute minimum of 10 hours per week** of work outside of the classroom to this course.**Grading:** Grades will be determined by the following:

- Three 100-point exams inserted at the one-third point, the two-thirds point, and during the last week of the course.
- Several quizzes and miscellaneous assignments that, in total, will be worth 50 points (the lowest score will not be considered).
- A comprehensive final exam worth 100 points.
- The spotlight problems will not directly count towards your final grade nor will homework be collected

Note: No (this means **NO! NO! NO! NO! NO! NO! NO!**) makeup quizzes will be given and neither will any be given in advance. Late assignments will not be accepted. It is your responsible to make any and all arrangements regarding missed class periods.Arrangements must be made **prior** to an exam that will be missed.**Final Grades** will be determined by the following scale:

	100 – 93% = A	92.9 – 90% = A-
89.9 – 87% = B+	86.9 – 83% = B	82.9 – 80% = B-
79.9 – 77% = C+	76.9 – 73% = C	72.9 – 70% = C-
69.9 – 67% = D+	66.9 – 63% = D	62.9 – 60% = D-
	59.9 – 0% = F	