

# Math 2800 – Writing Mathematical Proofs – Fall 2022

**Meeting Time** MWF 12:20–1:15

**Room** Oelman 345

**Instructor** Dr. Daniel Slilaty

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**Office** MM 263

**Office Hours** MWF 1:30–2:30 and MW 5:00–6:00

**Final Exam** Wednesday December 7th at 12:30–2:30

**Webpages** Your grades are going to be posted on Pilot. All class materials will be at my personal website.

[www.daniel-slilaty.xyz](http://www.daniel-slilaty.xyz)

**Grading Policy** The approximate percentage breakdown of your grade is as follows.

Homework – 40%

3 Exams – 20% each

Your final score is calculated according to these percentages and your grade is assigned on the following scale

80–100=A

65–79.99=B

50–64.99=C

40–59.99=D

0–39.99=F

**Attendance** Your attendance at all class meetings is REQUIRED. If you are absent excessively, then your grade for the course will be an automatically be an F.

**Office Hours** If you need individual help, please come to my open office hours. No appointment is necessary.

**Homework Assignments** It is a critical matter that you complete all homework assignments. If you do not complete them, it will be very difficult for you to receive a satisfactory grade in this course. If you are having trouble completing the homework, then please make an appointment to speak with me. Solutions to each assignment will be posted on the due date at [www.daniel-slilaty.xyz](http://www.daniel-slilaty.xyz). For this reason, *no late assignments can be accepted for any reason at all*. You will need to start on assignments as soon as they given and not wait until the evening before.

Correct solutions must feature proofs that are all of the following:

- (1) complete with all necessary details fully explained,
- (2) as BRIEF as possible with no repetition, no wordiness, and no trivial details,
- (3) written in LARGE handwriting (no microscopic college-ruled single-lined stuff, please), and
- (4) have all equations prominently centered and displayed on their own lines in the middle of the paper.

**Syllabus** Here is an outline of the topics that will be covered. We may add some additional material, time permitting.

Chapter 1 – Propositional Logic

Chapter 2 – Predicate Logic

Chapter 3 – Sets

Chapter 4 – Functions

Chapter 5 – Relations

Chapter 6 – Mathematical Induction

Chapter 7 – Metric Spaces

**Writing Across the Curriculum at Wright State** This class seeks to develop your writing skills in mathematics. Make no mistake, mathematics is a subject that is written in English (or French, German, Russian, or Chinese) and not simply just numerical calculations. In fact, many of the skills that you learn in writing mathematics are generally applicable to good technical writing.