

Nebraska Wesleyan University
Math 2200: Introduction to Higher Mathematics
Spring 02018

Instructor: Austin Mohr
Text: Mathematical Reasoning: Writing and Proof
Version 2.1
Ted Sundstrom
Website: AustinMohr.com/intro
Time: MWF 9:00 am – 9:50 am
Room: Olin 324
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Office Hours: MTWThF 1 – 2 (or by appointment)
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Drop Deadline: Friday, March 23 at 5:00 pm
Final Exam: Thursday, May 3 at 8:00 am

Course Description

A study of mathematical induction and other methods of proof, recursion, formal logic, and set theory. Assignments are given that help build proficiency in the use of L^AT_EX.

Textbook

A digital version of the textbook is freely available at ScholarWorks.GVSU.edu/books/9. Printed versions are available for purchase in the bookstore if you prefer.

Grading Scale

Grade cutoffs for A, B, C, and D are 90%, 80%, 70%, and 60%, respectively. The additional “+” and “-” grades will be awarded according to the following example: B+ (87-89%), B (83-86%), B- (80-82%).

Assignments

Daily Preparation	10%
Homework	30%
Proof Portfolio	30%
Exams	30%

Daily Preparation

Before most meetings, you will be expected to complete a short reading and/or writing assignment. These are graded pass-fail based on your willingness to attempt them (not on correctness). For exercises that you cannot complete, you should instead write specific questions to ask during our meeting that will help you improve your understanding. Allow yourself one hour for each daily preparation. Once you have reached that point, write down your remaining thoughts and stop for the day. You may completely skip up to three daily preparations without negatively affecting your grade.

Homework

Homework will consist of short proofs intended to check your understanding of concepts. They must be submitted in L^AT_EX one week after they are assigned. There will not be opportunities for revising homework.

Proof Portfolio

The proof portfolio will consist of several longer proofs intended to help you think about mathematical style. The portfolio must be written in LaTeX and will be revised throughout the semester.

Exams

We will be making use of “Mastery-Based Exams”. In short, you only receive credit for thorough solutions, but you will get many chances throughout the semester to display mastery.

Mastered	Grade
9	100 %
8	95 %
7	90 %
6	85 %
5	80 %
4	70 %
3	60 %
2	50 %
1	40 %
0	30 %

Daily Routine

Before class:

- Read the textbook pages or watch the video specified in the pre-class assignments document on the course website.
- On paper, complete as much of each problem as you can. If you are not confident in your solution, describe some *specific* points where your understanding could be improved.
- Submit your written work at the beginning of the relevant class.

During class:

- We will look at the pre-class problems together.
- I will give some additional questions to try in groups for the remainder of the time. I want you to have plenty of time to think about your work and discuss your thoughts, so these problems are not graded.

After class:

- As we progress through the material, look over the homework and proof portfolio documents to see what new problems you can attempt.

Accommodations

Nebraska Wesleyan University seeks to maintain a supportive academic environment for students with disabilities. To ensure their equal access to all educational programs, activities, and services, federal law requires that students with disabilities notify the university, provide documentation, and request reasonable accommodations. If you need accommodation in this course, please notify me so that I can verify that the required documentation is filed with the Academic Affairs Office and that your accommodation plan is in place. You should also meet with Prof. Sandy McBride, the Services for Students with Disabilities Coordinator (Old Main 126, 465-2346, smcbride@nebrwesleyan.edu).

Academic Integrity

Academic integrity is one of the basic principles of a university community. Nebraska Wesleyan University encourages and expects the highest standards of academic honesty from all students. The Student Code of Conduct states that “cheating, plagiarism, or other forms of academic dishonesty” are subject to disciplinary action. Refer to the Student Code of Conduct for additional information. Academically dishonest students may receive penalties up to and including receiving an F in the course.

Title IX Resources

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a reporting responsibility under The Title IX Educational Act of 1972, which prohibits violence, harassment, and discrimination based on sex and gender. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, for the sake of NWU students safety and welfare, I am required to share information regarding sexual misconduct or information about a crime that may have occurred on NWUs campus with Title IX coordinator or Deputy Title IX Coordinator. Confidential assistance is also available for students. If you or someone you know has been harassed, assaulted, or discriminated against because of sex or gender, the following resources are available:

On-Campus Confidential Resources

- Campus Victim Advocate: Lindsay Spaulding (lindsay@voicesofhopelincn.org or 402.465.2533)
- Campus Minister: Eduardo Bousson (ebousson@nebrwesleyan.edu)
- Counseling Center: 402.465.2224

Off-Campus Confidential Resources

- 24-hour Crisis Line 402.475.7273
- Voices of Hope (Relationship violence, sexual assault, and abuse support center) 2545 N Street; Lincoln, NE 68510; Office: 402.476.2110

Title IX Resources

- Title IX coordinator: T.J. McDowell (tmcdowe2@nebrwesleyan.edu or 402.465.2149)
- Deputy Title IX Coordinator: Dr. Susan L. Wortmann (swortman@nebrwesleyan.edu or 402.465.2305)