

Math 2033-201: Structure of the Number System I

Spring 2021

Instructor: Dr. Sarah Cobb

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Office hours:

Monday: 9:00-9:50 AM, 2:00-2:50 PM

Tuesday: 8:30-9:20 AM

Thursday: 8:30—9:20 AM

Friday: 10:00—10:50 AM

Other times by appointment

Schedule

Lecture: MWF, DB 121, 1:00—1:50 PM

Unit Exams: February 5, March 1, March 24, April 21 during class time

Final Exam: Due Monday, April 25, 5:30 PM

Catalog information

Course Description

Patterns and sequences, sets, the structure of various numeration systems, the four fundamental operations of arithmetic, integers, rational numbers, and elementary number theory. This course stresses conceptual understanding of mathematics through concrete examples, models, multiple representations of ideas and concepts, and processes of mathematical reasoning.

Prerequisites

MATH 1233 with a grade of C or better.

Course Materials

Textbook

Mathematics for Elementary School Teachers, Ricardo D. Fierro, ISBN 978-0-538-49363-5

You will be assigned regular reading from the textbook, so make sure you get a copy early. An electronic copy is fine.

Calculator

Calculators will be allowed on certain tests and quizzes. Make sure that you have a calculator and know how to use it. Calculators may not be allowed on certain assessments or parts of assessments. You do not need a graphing calculator, though you are welcome to use one.

Technology Requirements

This course is currently planned as a fully face-to-face class and has no specific technology requirements.

If you miss class, you will be able to view the course on Zoom. In the event that the Covid pandemic requires the university to move to remote learning, you will need to be able to run Zoom, Respondus Lockdown Browser, and Respondus Monitor. Respondus Monitor also requires a webcam.

Please refer to MSU's [minimum hardware and software recommendations for students](#) for suggested technology.

COVID-19 Safety Masks

In accordance with [university policy](#), masks must always be worn in the classroom. Your mask must be cloth or paper and must completely cover your nose and mouth. A face shield is not an acceptable substitute for a mask.

Symptom Screening

You should conduct a daily self-screening for symptoms of COVID-19 including a temperature check. [The MSU Safety App](#) includes a self-screening, or you can use the one available through the [CDC](#). If either check suggests that you not attend class, please attend via Zoom instead of in person. If you think you may have COVID-19, please contact local health care (the Vinson Health Center or your personal physician.)

Phase 3 Operations

Midwestern State University is currently operating with Phase 3 Covid restrictions, which means that most classes continue to meet in person with mask-wearing, social distancing, enhanced sanitation, and other restrictions. Worsening conditions could result in the university moving to Phase 2 restrictions, in which case this course will continue to meet at its scheduled time, but in a remote format using Zoom. If this becomes necessary, please monitor your D2L page and your campus email for communication with details.

Coursework and Grading Grading

Your course grade will be computed based on the following categories:

Category	Percentage
Reading Quizzes	5%
Content Quizzes, Homework, and Other Assignments	15%
Unit Exams (4)	70%
Final Exam	10%

Your final letter grade will be based on the percentage obtained:

Grade	Percentage
A	At least 90%
B	80–90%
C	70–80%
D	60–70%
F	Less than 60%

Final grades will not be rounded up and no extra credit will be given.

Reading Quizzes

Prior to most class days, you will be assigned a short reading from the textbook. A brief quiz in D2L will assess your understanding of the material. The purpose of the reading quizzes is to give you an initial familiarity with the concepts, which will be expanded further during class time.

Content Quizzes

About once per week, a short quiz will be given over the course material. These quizzes will assess your knowledge of the material and your preparation for exams. Quizzes will generally be announced several days ahead of time, but the instructor may choose not to do so. Some quizzes will be online and others will be in class.

Other Assignments

Other course work will be assigned periodically, either during or outside of class. These will mostly be brief assignments which will focus on clear communication. Late assignments will not be accepted. Your lowest two quiz/assignment scores will be dropped.

Exams

Four unit exams will be given on February 5, March 1, March 24, April 21. The exams will be given in class time.

If you must miss an exam, please let me know at least one week ahead of the test date and arrange to take the test early. In the case of unexpected and unavoidable absences (such as hospitalization), you must let me know on the day of the test and provide documentation.

For absences related to Covid isolation or quarantine, please contact me as soon as possible so we can arrange a late exam or remote administration of the exam.

Final Exam

Your final exam will consist of several short essay questions (a paragraph or two) asking you to reflect on your experiences in this class and with mathematics in general. It will be due at 5:30 PM on Monday, April 26. The questions will be provided several days ahead of the due date.

Course Policies

Attendance

You are expected to attend every class, in person, if at all possible. This includes arriving on time; staying to the end; being prepared; participating in class; and behaving respectfully. If you must miss class, please consult a classmate to find out what you missed.

Class sessions will generally be available on Zoom through the links in D2L. If you cannot attend in person, you may join through Zoom. You should not attend class if you are feeling sick.

In the case of an official university-excused absence (for example, an athletic event or Covid-related quarantine or isolation) attendance over Zoom will count as attendance in class. For any other absence, attending on Zoom will not count as being present in class. Exceptions will be considered at the instructor's discretion for unavoidable absences lasting for more than one week.

Students who miss more than six classes or portions of classes for reasons other than university-excused absences may be dropped from the course with a grade of F.

Classroom Behavior

Respectful behavior in the classroom is required. Any student who is disruptive will be asked to leave class. As much as possible, please avoid talking with classmates and leaving or entering the room during class. Make sure all electronic devices are silenced. Use of cell phones in class is not allowed. Masks must be worn over the nose and mouth at all times in academic buildings.

Electronic Devices

Use of computers is not allowed in the classroom. This includes laptops, cell phones, tablets, and other similar devices. (Calculators are allowed.) Students using such devices may be asked to leave class. If a cell phone, smart watch, or similar device is visible or audible during an exam, you may receive a point deduction or a zero on that exam.

If this policy presents a serious problem, please let me know; exceptions may be made in special circumstances.

Academic Misconduct

Any incident in which a student submits work for grading that does not reflect their own effort is considered academic dishonesty. This includes using sources (by paraphrase or direct quotation) without proper attribution; collaborating on work where collaboration is not authorized; use of sources on an assignment or test where those sources are not authorized; and turning in work completed by another person.

Cheating on any work in this course will result in no credit for that work. Egregious or repeated incidents will result in more serious consequences, such as a failing grade in the course or dismissal from your academic program. All incidents of academic misconduct will be reported as specified in your student handbook.

Student Handbook

Make sure you are familiar with the university policies as described in the [student handbook](#). This course will abide by all university policies.

Changes

Some portions of this syllabus may alter during the semester. When possible, I will announce changes in class as well as sending an email through the D2L email system. You are responsible for knowing everything I announce in class as well as everything I email to your address as listed in D2L. If you miss class, make sure you talk to someone who was there.

Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program and to regularly check posted information. D2L provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. Downloading the Brightspace Pulse app is also recommended. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

Office Hours

Office hours are time that I have set aside to answer questions about the course or course material. I am happy to answer questions about homework problems, quizzes and tests, study practices, grades, and other topics. I will be active on Zoom during office hours and links will be accessible through D2L. Feel free to join the meeting. I would prefer to meet virtually for office hours while the university continues to operate with phase 3 pandemic restrictions, but I am also available to meet in person if necessary. If it is impossible for you to attend scheduled office hours, email me to set up an appointment at another time.

Communicating with Me

The best way to reach me is by email (my email address is on page 1). I will generally respond to email within 24 to 48 hours. I will be in my office during office hours each week and often at other times; feel free to stop by. Any communication not in writing or by email should be considered unofficial.

Services for Students With Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please contact the Disability Support Services office.