Math 462 - Number Theory
Fall Semester 2017
TR 2:00pm - 3:20pm
Agenstein Hall 326

Instructor: Dr. Lori McCune
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Office: Agenstein 135K
Phone: 816-271-4592

Office Hours: MF: 10am-11am
TR: 11am-12:30pm
other times available by appointment
The best method to contact me is by email.

COURSE INFORMATION

Prerequisites: A grade of C or better in MAT 206.

Course Topics: Integers, divisibility, greatest common divisors, Diophantine equations, congruences, and more

Homework: Weekly homework sets will be assigned in class. Assignments will be collected on a regular basis and a selection of problems will be graded.

Quizzes: There will be bi-weekly quizzes throughout the semester. There will be no makeups for missed quizzes. The content of the quizzes will be similar to that of the homework and material covered in class.

Exams: There will be three in-class exams and a comprehensive final exam. Midterm exam dates will be announced in class at least one week in advance. The final exam is scheduled for Tuesday, December 12, 2017 from 2:30pm - 4:30pm. The final exam schedule is available at http://missouriwestern.edu-finals.

There will be NO MAKE-UPS for missed exams, with the only exceptions being a university-sponsored event (athletic or academic) or in the case of legal or medical necessity. In these cases, documentation and advance notice are required.

Resources: The material in this class can be challenging. Every mathematician struggles with new concepts from time to time, and you should not be discouraged if you find yourself struggling in this course. If you are having trouble, please come talk to me in my office. It can also be helpful to discuss new material with your classmates outside of class. I encourage you to first try the homework problems yourself and then discuss them with one another. However, be sure that the work you turn in is your own.

Name Contact Information

Evaluation Procedures: You will be assigned a final grade for this course based on the following:
Homework 100 points
Quizzes 100 points
Exams (3) 300 points
Final Exam 200 points
Total 700 points

Evaluation Scale (in percentages): If you earn the following scores, you will receive no less than the grades listed:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
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<tr>
<td>B</td>
<td>80-89</td>
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<tr>
<td>C</td>
<td>70-79</td>
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<tr>
<td>D</td>
<td>60-69</td>
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<tr>
<td>F</td>
<td>below 60</td>
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Official Course Syllabi: Available at [https://www.missouriwestern.edu/csmp/official-course-syllabi/](https://www.missouriwestern.edu/csmp/official-course-syllabi/)

Cell Phones: Turn your cell phone on silent before entering the class. If a cell phone activates during class you will be asked to leave. A visible cell phone during class will be considered cheating. A CELL PHONE IS NOT A CALCULATOR.

Attendance Policy: Missouri Western State University has the expectation that students should be active participants in their coursework. Regular class attendance is considered a key element of participation and an essential part of the student’s educational experience. (Taken from the MWSU Undergraduate Catalog available online at [http://catalog.missouriwestern.edu/undergraduate/](http://catalog.missouriwestern.edu/undergraduate/).

Classroom Behavior: Students are expected to conform to the normal standards of academic behavior while in the classroom. Behavior which disrupts the classroom environment or interferes with other students’ ability to learn may be grounds or justification for dismissal from the classroom. (Taken from the MWSU Student Handbook available online at [https://www.missouriwestern.edu/studentaffairs/student-handbook/](https://www.missouriwestern.edu/studentaffairs/student-handbook/).

Academic Honesty: Academic honesty is required in all academic endeavors. Violations of academic honesty include any instance of plagiarism, cheating, seeking credit for another’s work, falsifying documents or academic records, or any other fraudulent activity. Violations of academic honesty may result in a failing grade on the assignment, failure in the course, or expulsion from the university. When a student’s grade has been affected, violations of academic honesty will be reported to the provost or designated representative on the Academic Honesty Violation Report form. Please see the MWSU Student Handbook for specific activities identified as violations of this policy and the student due process procedure [https://www.missouriwestern.edu/studentaffairs/student-handbook/](https://www.missouriwestern.edu/studentaffairs/student-handbook/).

Students with Disabilities: If you have been diagnosed with a disability or if you suspect that you may have a disability that has never been diagnosed and would like to find out what services may be available, please visit the Accessibility Resource Center (ARC) in Eder Hall, room 203N or visit the ARC website at [https://www.missouriwestern.edu/arc/](https://www.missouriwestern.edu/arc/) as soon as possible. This syllabus, as well as all other printed or electronic materials, can be made available in alternative/accessible formats if requested with sufficient prior notice. Missouri Western is an equal opportunity/affirmative action institution.

Grade Appeal Process: While it is the responsibility of the instructor to establish the criteria for grades and the evaluation of student academic performance, it is the responsibility of the student to meet these standards. The grade appeal procedure is available for the review of allegedly capricious grading or clerical error by the instructor and not for the purpose of evaluating the student’s academic excellence. Please see the MWSU Student Handbook for additional information about the student appeal process (available online at [https://www.missouriwestern.edu/studentaffairs/student-handbook/](https://www.missouriwestern.edu/studentaffairs/student-handbook/)). A copy of the grade appeal procedures adopted by the Department of Computer Science, Mathematics, and Physics can be
Recording of Course Content Policy: All course materials authored by the course instructor, including but not limited to, PowerPoint slides, lecture recordings, Moodle screen shots, course handouts, and course syllabi, are the intellectual property of the course instructor and are protected by copyright law. All lecture recordings are authorized solely for the purpose of the student’s individual or group study with other students enrolled in the same class. Such recordings may not be reproduced or uploaded to publicly accessible web environments, nor can the recordings be exchanged or distributed for commercial purposes, compensation, or for any other purpose other than study by students enrolled in the current class. In other words, a student enrolled in the current class may download and make copies of the course materials (including lecture recordings) for the student’s own use, but the student may not publicly reproduce or distribute the material, or enable others to do so without the written consent of the instructor. Furthermore, students must delete all lecture recordings at the end of the course. Failure to comply with this policy may constitute a violation of the Student Code of Conduct as outlined in the MWSU Student Handbook and result in disciplinary action (https://www.missouriwestern.edu/studentaffairs/student-handbook/).

School Cancellation Policy: MWSU will close only in extraordinary circumstances. If MWSU is to close due to inclement weather conditions, announcements will be made as follows:

- Decisions about daytime closings will generally be announced by 6am
- Decisions about evening closings will generally be announced by 4pm

Any closing of the University will be broadcast on the following stations: KKJO (105.5 FM), KFEQ (680AM), KSJQ (92.7 FM), KGNM (1270 AM), KMRN (1360 AM), KKWK (100.1 FM), KSFT (1550 AM), KAAN (95.5 FM), KCMO (81 AM and 95 FM), WDAT (Channel 4), KQTV (Channel 2), KCTV, KMBC, KSHB, St. Joe Now (Cable Channel 3)

Any school closing will also be posted on the MWSU website (www.missouriwestern.edu). If the aforementioned stations do not indicate MWSU is closed, then it should be assumed that MWSU is open. When making the decision to close MWSU due to inclement weather conditions, the university administration considers several factors, and therefore, it should not be assumed that MWSU is closed when local public schools are closed.

A Note on Harassment, Discrimination, and Sexual Misconduct: Consistent with its mission, MWSU seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and MWSU policy prohibit harassment, discrimination, and sexual misconduct. Anyone experiencing harassment, discrimination, or sexual misconduct is encouraged to talk to someone from the Campus and Local Resources list found on page i of the MWSU Student Handbook (https://www.missouriwestern.edu/studentaffairs/student-handbook/) obtain support and allow MWSU to respond appropriately. Please note that there are both confidential and non-confidential resources and reporting options available. Your instructors are required to report incidents of sexual misconduct and thus, cannot guarantee confidentiality. For more information about policies, reporting options, and resources, please visit the Title IX Policies and Procedures website: https://www.missouriwestern.edu/titleix/ (NOTE: Students have received information via email regarding Title IX training. Please follow the link in the email sent to your MWSU student account to complete the training. Students who do not complete the training will receive a hold on their account, prohibiting future semester enrollment until the training is complete.)

I reserve the right to make changes to this syllabus. Any changes will be announced in class.