Dr. Brian K. Miceli
Math 3341 - Number Theory I
Spring 2016

My URL: http://www.trinity.edu/bmiceli

All of my contact information and office hours can be found at the above URL. In addition, all information which is pertinent to this course, including a copy of this syllabus and all information regarding exams and homework assignments, can be found at the above web page by following the proper links. Note that I do not use TLearn for this course.

Time & Place: MATH 3341-01 meets MWF from 11:30 am - 12:20 pm in Marrs McLean Hall (MMH), Room 177.

Office Hours: My office is located in MMH 115F. For the exact times of my office hours, consult the Course URL. I may also be available by appointment.


Prerequisites: A passing grade in Math 3326 or consent of the instructor

Cell Phone Policy: Cell phone use is prohibited during class. If you wish to talk, text, tweet, etc. during class time, please do so outside of the classroom.

Course Content: This is first and foremost a course in problem-solving and communication. The course focuses on properties of the integers: topics include divisibility, factorization, congruences, Diophantine equations, and an introduction to prime numbers. This course will entail a mix of computational methods and basic proof techniques.

Expectations: You are expected to invest a significant amount of work and thought outside the classroom for every hour of lecture. Moreover, work submitted for evaluation in this course will be graded in a most rigorous fashion, and thusly, such work should have a great deal of thought and care put into it. Work which is not written in a clear and coherent fashion will be marked down; this includes losing points for grammatical errors, spelling mistakes, and similar offenses.

Evaluation: Your overall score in the course will be based upon your scores on the homework, midterm exam, and the final exam. The percentage values are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Homework</td>
<td>60%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>20%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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Your letter grade will be determined by your overall percentage at the semester's end, as well as by how well the class performs overall.
**Homework:** Homework assignments will be due every Friday at the beginning of class unless otherwise stated and each student’s lowest score will be dropped at the end of the semester. Homework will be assigned after every week and that assignment will then be posted on the web page. There may be many problems assigned; however, each Wednesday a subset of the total problems assigned will be selected to be turned in on Friday. Students will be responsible for all problems on an assignment, whether collected or not. Except for extreme circumstances, late homework will not be accepted for any reason, and unexcused late and missing papers will be given a grade of zero (0). Finally, Homework must be done using \LaTeX, and assignments which span multiple pages must be stapled together before you come to class.

Collaboration is a very important part of mathematics, and I encourage everyone to work together on homework assignments. That being said, it is never acceptable to simply pass off someone else’s work or ideas as your own. Therefore, you must cite sources on any work that is to be turned in for a grade, whether it is from a textbook or from another student in class. Citing sources and giving credit to others for their ideas is a crucial part of any higher level of education, and this rule is not to be taken lightly, but also understand that you will in no way be penalized for quoting a textbook or getting a proof idea from a classmate as long as everything is cited properly.

**Midterm Exam:** There will be one evening midterm exam during the semester. The date, time, and location for the exam will be announced in class and posted to the course web page as they become more concrete. If you have a legitimate conflict with the exam date or time once they are selected, please contact the instructor as soon as possible.

**Final Exam:** A cumulative, take-home exam will be given at the end of the semester. As the end of the semester comes closer, more information will be given as to the exact guidelines regarding this exam.

**Attendance:** Attendance is highly encouraged but is not mandatory. Roll will not be taken, but excessive absences should be explained to the instructor.

**Academic Integrity:** All students are covered by a policy that prohibits dishonesty in academic work. Under the Honor Code, a faculty member will (or a student may) report an alleged violation to the Academic Honor Council. It is the task of the Council to investigate, adjudicate, and assign a punishment within certain guidelines if a violation has been verified. Students who are under the Honor Code are required to pledge all written work that is submitted for a grade: “On my honor, I have neither given nor received any unauthorized assistance on this work” and their signature. The pledge may be abbreviated “pledged” with a signature.

**Student Accessibility Services (SAS):** If you have a documented disability and will need accommodations in this class, please speak with me privately early in the semester so that I may be prepared to meet your needs. If you have not already registered with SAS, contact the office at 999-7411. You must be registered with SAS before I can provide accommodations.