Math 3326 - Introduction to Abstract Mathematics
Spring 2011

Instructor: Dr. Brian K. Miceli
Course URL: http://trinity.edu/bmiceli

All of the instructor’s 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.

Time and Place: MWF 10:30 AM - 11:20 AM, Marrs McLean Science Building (MMS), Room 130
Office Hours: For the exact times of office hours, consult the Course URL. I will also be available by appointment.

Prerequisites: A passing grade in Math 1308 or 1312.

Course Content: This class is first and foremost a course in logical reasoning and communication. This course will begin with an introduction to set theory and structured logic, including the fundamental techniques used for proving mathematical statements. From there we will cover selected topics in abstract algebra, real analysis, and point set topology.

Expectations: Each student is expected to invest a significant amount of work and thought outside the classroom for every hour of lecture. Moreover, work submitted for a grade 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 sloppy or messy or that 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. This course is a gateway course to many upper-division mathematics courses, including Number Theory, Combinatorics, Non-Euclidean Geometry, Abstract Algebra, and Real Analysis, and the high level of work that will be expected in this course is to ensure that students who pass this course have the best opportunity for success in future math courses.

Homework: Homework assignments will be due daily at the beginning of class unless otherwise stated. Homework will be assigned after every lecture and that assignment will then be posted on the web page later that day with a due date of the next class period. 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). Graded homework exercises are to be written neatly using one side of 8.5 × 11 inch paper, and multiple pages must be stapled together before you come to class. Each problem must be done on its own page, and each page should contain the student’s name, the date, and the problem number. Do not use paper from a spiral notebook unless you can tear off the ragged edge.

Collaboration is a very important part of mathematics, and everyone is encouraged to work together on homework assignments. That 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 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.
Projects: There will be a small number of mini-projects throughout the semester that will contribute 10% to each student’s final grade. Each project will be announced in class and then posted to the course web page along with all of the necessary information regarding the project.

Midterm Exams: There will be two evening midterm exams during the semester. The dates, times, and locations for the exams 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 dates/times once they are selected, please contact the instructor as soon as possible, and do not wait until shortly before the exam.

Final Exam: A cumulative exam will be given in the regular classroom on Tuesday, May 10th, from 8:30 to 11:30 in the morning.

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

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

- Homework: 35%
- Projects: 10%
- Exams: 30%
- Final Exam: 25%

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.

Academic Integrity: All students are covered by a policy that prohibits dishonesty in academic work, The Academic Honor Code. The Honor Code asserts that the academic community is based on honesty and trust, provides for a procedure to determine if a violation has occurred and what the punishment will be, and provides for an appeal process. 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.

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