Math 100  
Exploring Mathematics

Section: 30125  
Days: T, Th  
Time: 9:30 – 10:50 a.m.  
Location: F10  

Instructor: Yan Tian  
Office: NS 355G  
Phone: 760-744-1150 ext 2806  
Email: ytian@palomar.edu

Office Hours  
M-F: 11-12 noon, NS355G  
Tu: 12-1pm; Th: 6-8pm; Math Center

Textbook  
Mathematical Ideas 12th edition

Prerequisite  
A minimum grade of "C" in Math 56 or Math 60 is required.

Scope of Course  
This course will cover the topics from logic, algebra, number theory, and geometry. We will cover selected topics from Chapters 2, 3, 4, 5, 9, 10 and 11.

The following items are needed for this class: a calculator, ruler, protractor, compass and sheets of graph paper.

Students should plan on studying a minimum of 6 hours per week, outside of the classroom, for this class. Please visit my website for Homework Assignments, Syllabus, and other review materials.  
http://www2.palomar.edu/users/ytian/

Course Objectives  
The successful students will be able to:

- Use inductive reasoning to formulate mathematical conjectures
- Use critical thinking and problem solving skills to solve mathematical problems and applications.
- Analyze arguments to determine whether they are valid or invalid.

Student Learning Outcomes  
Use critical thinking to arrive at conclusions from Venn Diagrams, syllogistic forms, and truth tables; apply mathematical principles and techniques to solve problems in areas such as ancient systems of numeration, set theory, and number theory; Relate a knowledge of the people, and uses of mathematics throughout history of mathematics.

Grading Policy  
Homework Assignments: 20%
Homework is assigned daily. Homework is due on the day that the test is given. The completion of the work is checked and it is students’ responsibility to check the correctness.
Papers are to be stapled. Chapter and section numbers are to be written on the top of each page. Graphs are to be done on graphing paper with appropriate scales and labels, and to be attached to the proper questions. All work needs to be shown. Answers without work shown are not acceptable. Please attach a cover page with your name, class number and sections numbers of the assignments and completion percentage.

In-class Assignments and projects: 10%
In-class assignments and projects will be given throughout the course. These assignments will reflect current learning subjects and reinforce new concepts. Each project needs to be completed on time. Both participation and contribution are necessary for group projects.

Tests: 50%
Each test is closed-book and closed-notebook. All work needs to be shown in order to earn full or partial credit. The lowest test score will be dropped at the end of the semester. No make-up tests will be given. Most of tests are given with scientific calculators only. Any use of any mobile communication/audio device, during an exam, will result in zero point on that exam.

Final Exam: 20%
The final exam is a comprehensive written exam.

Attendance
Please notify the instructor if you are going to be absent. Two or more consecutive unexcused absences could result in student being dropped. Students may be dropped at any time if 25% of classes have been missed. Students may be dropped if not doing homework or not taking a test without reasonable excuses.

Dishonor
Students caught violating the Palomar Community College policy on academic integrity will meet with the consequences of that policy. (300.3)

Students with Disabilities
Please meet me to discuss testing accommodations during the first week.

Find Help
- Visit the instructor during the office hours or make an appointment with the instructor
- Visit Mathematics Learning Center to get free tutoring
- Visit the library’s tutoring center to get free tutoring
- Visit the STEM Center (NS-312)