



Chaminade University OF HONOLULU

MA100 SURVEY OF MATHEMATICS
Schofield Education Center
Professor: Dr. Trevorrow

Class: (10 Weeks) July11 - Sept 12 **Time:** Fridays 5.30pm - 9.40pm
Text: *Thinking Mathematically*, 6th edition, Blitzer, Prentice Hall (various ISBN)
Office Hours: Before or After Class (optional Saturday sessions may be offered)
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Course Description: This is a 3 credit terminal course and is not a prerequisite for any other course in mathematics. As a survey course a variety of mathematical topics are studied such as: Problem Solving, Numeration Systems, Number Theory, Algebraic Expressions, Graphing, Percent, Finance, Measurements, Optimization, Probability Theory, and Statistics.

Course Objectives are based on the Chapter/Section Contents from the text and evaluated based on problem solving, definitions, concepts and applications. Depth of coverage will vary according to class interests, abilities and time.

- Comprehend different problems solving models as they apply to mathematics
- Compare and use Inductive and Deductive reasoning, Scientific Method, mathematical proofs
- Application of tables and patterns to solving complex problems
- Evaluation of numerical properties and their applications
- Uniqueness of prime numbers in solving unusual problems
- Use of algebraic symbols to solve word problems
- Nature of functions, expressions, evaluations, vertical line test
- How to read, interpret, label and create graphs based on data or simple equations
- Apply concepts of percent, simple and compound interest to consumer applications
- Properly define commonly used nomenclature for financial formula, ordinary vs. exact interest
- Tax system; credits vs. deduction, graduated vs. flat, calculations, deficit
- Understand the origins, development and problems with our "money" system
- Be able to convert various measurement units, understand their advantages, disadvantages
- Dimensional Analysis, Optimize shape, Unit vs. Measurement,
- Make predictions based on theoretical or empirical probability and apply to events
- Form basic statistical calculations, numerical and graphical interpretation
- Understand some requirements for valid survey, Sample Size, Randomness,
- Create different graph types, determine which might be most appropriate for given data
- Know how graphs may be structured to modify perceptions and affect conclusions

Required Materials: Three ring Binder and note paper, Text, Multi Line Calculator, Graph Paper, Ruler, Pencil, Eraser, and other materials as discussed.

Attendance: Each week is the equivalent of 4 regular day classes. Missing class, arriving late or leaving early can significantly affect your learning and grade. All students will be required to sign a class attendance log.

Deficiency Report: May be issued for students who are officially registered but not attending class, not doing satisfactory work, or violating class requirements.

Quizzes: Normally there will be practice quizzes at the end of class and may be part of your grade if collected.

Submitted Work: Classwork, Quizzes, Projects will be periodically collected. Use normal loose leaf paper, write neatly with the question(s) or assignment properly identified. Box or highlight final numerical answer. Minimal Working, Poor Structure = zero. For all collected work, write your first name, last name at the top right hand side, with the date underneath. No sharing for graded work. Late work or not following standards, regardless of reason, gets zero points.

Late Work: Any work due the following week is to be submitted before class starts. If late, it is not accepted and the grade is zero.

Grading: Letter grades are given in all courses except those taken on a credit/no credit basis. Grades are calculated from the student's daily work, class participation, quizzes, tests, term papers, reports, and the final examination. They are interpreted as follows:

A Outstanding scholarship and an unusual degree of intellectual initiative. 90%+
B Superior work done in a consistent and intellectual manner. 80%+
C Average grade indicating a competent grasp of subject matter. 70%+
D Inferior work of the lowest passing grade. 60%+
F Failed to grasp the minimum subject matter; no credit given. 0-59%

Midterm	400 pts	
Final Exam	400 pts	
Submitted Work	200 pts	[4x50pts]
Attendance	(-) 1% of final grade	per partial hour late or missed

Notebook: Taking clear well organized notes can aid greatly in your learning and study and provide additional information not covered by your textbook.

Exams: Are 2 hrs, comprehensive for period, You must take the exams when scheduled.

Course Schedule: In general we will cover 2 - 4 text sections per week. Each section may require 1 - 3 hrs for reading and study and additional time for completing the HW. A detailed weekly schedule will be provided (subject to change).

Academic Integrity: All material submitted in fulfillment of course requirements must be done by the registered student. Copying, having someone else do your work or sharing exam information, may result in a grade reduction or failure for the course.

Technology: An inexpensive, dual line display, Texas Instruments or Casio calculator is recommended. You are responsible for learning how to use your calculator for the functions and operations used in class. Computers, Tablets, cell phones etc. are prohibited in the class room (-2% per occurrence)

Violations of any type may result in grade reduction.

Department: Any disruptive behavior or actions that interfere with the learning of other students may result in a grade reduction and/or being asked to leave.

Food and Drink: Please follow the base commander's directions in this regard.

ADA Accommodations: Students with special needs (ADA) should inform the Chaminade Counseling Center by the end of Week 2 for a determination of possible accommodations. Contact: Dr. Yashuara, (808) 735-4845

Assistance: Help is available before or after class, by email and live sessions may be offered near Pearl Harbor by arrangement. Tutoring may also be available via Student Services. Forming study groups is highly recommended.