

MA100 CURRICULUM

Dr. Trevorrow

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Instructor: Dr. Torrance L. Trevorrow

Office Hours: By arrangement: I usually try and arrange for a complimentary tutorial morning or afternoon at least twice during the semester (Oahu)

Email: All email should be via the web board. If for any reason the server is unavailable then the instructor may be contacted via numeroprime@yahoo.com (make sure MA100 Online is in the subject line).

Text Book: As selected by Chaminade University: **The Nature of Mathematics**, Tenth Edition by Karl Smith. Brooks/Cole Publishing Company, 2004. ISBN 0-534-40023-X. This is a very popular text used by major universities. Earlier editions may be used with discernment. If ordered online, please make sure to pay for priority shipping; media rate takes 8-10 weeks.

Class Times: Online as scheduled

Course Description: This is an introductory course that meets the Track A general education requirement in mathematics and does not meet any prerequisites for any other math course (3 credit hours). Mathematical content is developed from numerical concepts into explorations of geometry, measurements and finance. The course, its content, and grading may be modified at the instructor's discretion.

Course Goals: To improve student skills in reading, interpreting and communicating mathematics contents using numeric, analytic and graphical methods, and to allow students to develop an understanding of both deductive and inductive reasoning. This course will place an emphasis on increasing the student's mathematical skills and knowledge relating to: Problem Solving, Types of Numbers, Geometry, Areas and Volume, and Financial Management.

Course Objectives: At the completion of this course the diligent student should be able to understand and apply:

1. The three hints for success
2. Polya's problem solving model
3. Pascal's triangle as an application to problem solving
4. Order of Operations
5. Inductive and Deductive Reasoning
6. Scientific Notation, Exponential Notation
7. Estimation, Approximation
8. Basic Number Theory, Prime Numbers, Composite, LCM, GCF, etc.
9. Geometry, Properties of Triangles, Angles, Ratios
10. Measurements: Estimate, Calculate, Convert Dimensions

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11. Simple and Compound Interest, Inflation, Apr, Add-on Interest
12. Financial growth and Payments – Investment, Auto Loans, Retirement

Methodology: Most of your learning will come from meticulous study of the text and material presented. Multiple quizzes, discussions, and supplementary articles and presentations will be used to reinforce learning. Media articles will also be used to relate mathematical concepts to everyday life.

Success: All courses require a high degree of personal responsibility and time management skills. Grades tend to be proportional to the individual effort that is taken for the learning process. Personal satisfaction will come from studying in earnest, learning as much as you can, not solely depending on the text and a quick read; and allocating sufficient time to absorb material.

Universities often recommend 2-3 hrs of study time for each hour of class time. A three credit course would require about 12 hrs per week for study, research, reading, and homework. The "bottom line" is reflected in the homework – can you easily do it, and if not, what will you need to do to achieve success?

Grading: Percentage points and letter grade are as indicated:

Weekly Quizzes	30%
Homework Posts	20%
Final Exam (proctored)	50%

A = >89%	Outstanding Scholarship and excellent initiative with course
B = >79%	Superior Quality done in a consistent intellectual manner
C = >69%	Satisfactory showing competent understanding of course
D = >59%	Lowest passing grade, inadequate for prerequisites
F = <60%	Unsatisfactory understanding and coursework

Absences: Missed work is not excused unless supported by a Medical Slip, Funeral Home, or Military Orders justifying a 7 day absence. The instructor will determine the appropriate credit if applicable which is usually an average of all course work.

Academic Integrity: All material submitted in fulfillment of course requirements must be done by the registered student. Cut and paste research, copying or having someone else do your work, constitutes plagiarism and will result in a grade of zero and possible failure for the course.

Supplies: Text Book, Notebook, Ruler, Protractor, Compass, and Calculator with exponential function (see text). A cell phone or PDA is not permitted for exams.

Resources: The Internet has many wonderful sites for learning more about mathematics - many are mentioned in the text. Newspapers, Magazines, Dictionaries, Encyclopedias and your classmates can provide useful material and perspectives for analysis and learning. The text is also supported by its own site: www.mathnature.com. If you meet certain criteria, free tutoring is available on-campus – call the information line.

Requirements: Coursework is required to be property identified, clearly presented, showing all intermediary steps and submitted on time.. Answers only, messy or incomplete work = zero. Polya's problem solving model is to be used for all mathematical posts. You are required to seek clarification on any material that you do not understand.

Your contributions and ways of approaching questions will help enrich everyone's learning. You are required to participate by studying the text, doing the assigned homework and research, take the weekly quizzes and final exam. Please ask questions, discuss topics, and assist other students. A valid photo id is required for the final exam.

Finals: For those off-island arrangements will need to be made with the AUP office or your site representative. For those on Oahu, reservations can be made for various base sites. Details are forward from the AUP office towards the end of the course. The final exam is usually closed book, no notes, with formulas provided.

Notes: