

CHAMINADE UNIVERSITY – MA100 SCHOFIELD SYLLABUS S11

Instructor: Dr. Trevorrow

Class Times: 5:30 - 9:40 pm (Fridays, Schofield Education Center)

Office Hours: Before and after class, and some Saturday afternoons by arrangement.

Email: arithmetic.math@gmail.com or torrance.trevorrow@adjunct.chaminade.edu

Text Book: The Nature of Mathematics, 11th edition, by Karl Smith. Brooks/Cole Publishing Company: **ISBN 0495012726** (text only). A student solutions manual may also be helpful ISBN 049510809X. Prices vary depending on source. You may also wish to purchase specific chapters or rent the text - www.cengagebrain.com.

Course Description: (from the catalog) 3 Credits. Mathematical thought is studied through inter actions between the foundations of knowledge and the study of the nature of both algebra and geometry. Issues of mathematical thought are addressed through selected studies of the nature of sets, logic, numbers and operations, algebra, geometry, measurement, financial management, probability, statistics, graphs and functions and mathematical systems. This course fulfills the Track A general education requirement in mathematics. The course is intended as a terminal course and is not a prerequisite for any other course in mathematics.

Prerequisites: The student should already be competent with basic arithmetic, fractions, percents, and elementary algebra.

Course Goals: To increase the student's mathematical knowledge, skills and abilities. Mathematical format and perspectives are developed and analyzed from the text using problem solving examples, and critiques. A variety of mathematical topics are chosen to expose the student to different types of mathematical thinking and applications.

Course Objectives: At the completion of this course the student should be familiar and demonstrate competency with the following topics and concepts (subject to change).

- Reading and writing mathematics, Order of operations
- Numeration systems, numerical history, grouping and position
- Problem Solving, mathematical style and modeling.
- Inductive and deductive reasoning
- Nature of numbers, odd, even, natural, prime, special properties
- Scientific and Exponential notation, order of operations, reasons, applications
- Measurements, units, dimensions, efficiency, accuracy, precision, analysis
- Algebra, basic, percents, ratios, applications
- Finance and Interest, types of loans, inflation, compound interest
- Installment loans, add on interest, credit card interest, Apr.
- Frequency distribution, graphs, types, advantages, disadvantages, reading
- Descriptive Statistics, central tendency - measures, dispersion, applications
- Probability, terms, union, intersection, complement, (and, or), spinners, cards, dice
- Expected Value, time value, extended warranties, games, contests

Primary Chapters: 1,2,11,13,14

Methodology: Most of your learning will come from class careful reading of the text, taking comprehensive class notes and participation in activities. Multiple quizzes, discussions, and articles will be used to reinforce learning. Class will normally begin with a discussion topic followed by text material.

Success: All courses require a high degree of personal responsibility and time management skills. Grades tend to be proportional to the *personal effort* that is taken for the learning process. Universities often recommend 2-3 hours of study time for each hour of class time. For a three credit class a common estimate is 8-12 hrs per week in addition to class time.

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Grading: Points will accumulate and be converted to a percent. Classwork* (Homework, Quizzes, Papers, Presentations, and Notes) 50%, Final 50% (less than 60% on the final exam may be failure for the course). *this score is multiplied by the percentage of class attendance. Changes may be made to the course and grading at the instructor's discretion. Any questions about your grade, please see the instructor after class.

A	90% + Outstanding Scholarship and excellent initiative with course
B	80% + Superior Quality done in a consistent intellectual manner
C	70% + Satisfactory showing competent understanding of course
D	60% + Lowest passing grade, inadequate for prerequisites
F	<60% Unsatisfactory understanding and class work

Late Work: Work is due as assigned. One personal extension may be permitted before Week 10. Any requested work is due at the start of class. Work not compliant with specified standards will not be accepted.

Attendance: Active and early participation is vital to your success. Each student is accountable for all the information presented in class and to present work by the due dates. Entry and exit only during class breaks to avoid disruption. Absence from class is rounded to the nearest hour. Class starts promptly at 5.30pm you should be seated, ready for work.

Guidelines from the undergraduate catalog indicate that if you miss more than a week of classes you are subject to a grade reduction; missing two weeks of classes may result in notification to appropriate authorities and possible withdrawal. Should an illness or personal reasons necessitate continued absence the student should officially withdraw.

Academic Integrity: All material submitted in fulfillment of course requirements must be done by the registered student. Cut and paste research, copying, substitute work, sharing quizzes or homework will result in a grade of zero and possible failure for the course.

Supplies: Text Book, Ruler (cm, inches), Calculator (two line display recommended) with exponential functions. Other items may be required (graph paper).

Resources: The text and class information are the primary resources for the course. Often re-reading the same section of the text (several times) will help more than searching for other material. Your instructor is always available before class and by email.

ADA Accommodations: Students with special needs who meet the criteria for the Americans with Disabilities Act (ADA) must provide written documentation of the need for accommodation from the CUH Counseling Center (Dr. June Yashuara; phone (808) **735-4845** by the end of week two of the class in order for the instructor to plan accordingly. Failure to provide written documentation will prevent the instructor from making the necessary accommodations.*

Requirements: You are required to **immediately** seek clarification on any material that you do not understand. All submissions should show complete working, clear explanations and identification of the material being presented. Any assignments given advance notice must be stapled with your name and date at the top right of each page. No tear out sheets are accepted. Any graded material must be picked up during that class.

No cell phones or other technology are permitted in class. Points will be deducted for any violations or disruptions.

You are expected to maintain standards of academic performance and courtesy and to comply with all CUH policies. Any requests from the instructor require a prompt response. Should you decide to withdraw from the course please let me know. Any disruption to the class, instructor or your fellow students will result in expulsion from class and at the very least a marked absence for that day.

Finals: The final is given during the last day of class and will not be available at any other time. Usually the final is written, closed book, no notes, calculator permitted. Formulas may be provided. Write your name on each page, no name = zero grade.