



## MA 100 Quantitative Reasoning and Mathematical Skills (ONLINE)

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Semester and Year: Fall 2015, 10 Weeks (Oct 5 – Dec 13)

Course Code: MA100-90-02

I. Instructor Information: Dr. Tory Trevorrow, Adjunct Professor Mathematics

II. Class Information: Online, through the MML (My Math Lab) site

III. Required Text: Thinking Mathematically, 6th edition, Blitzer, Pearson, ISBN 321867327 or 32119991X. The former is a loose leaf edition of the text with MML, the latter is an MML subscription only. Each includes an online PDF text.

IV. Course Title: MA 100 Quantitative Reasoning and Mathematical Skills

V. Course Description: (from the university catalog) MA 100 Quantitative Reasoning and Mathematical Skills (3) credits. A study of various topics including an introduction to sets, logic, number systems, basic skills in algebra and geometry, consumer mathematics, probability and statistics, with an emphasis on problem solving, quantitative and logical thinking. 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. Offered every semester.

VI. Learning Outcomes: At the conclusion of the course the student will have had to opportunity to learn fundamentals of mathematical thinking and writing, with a variety of topics. Specifically the student should be able to:

1. Understand and apply Inductive and Deductive Reasoning
2. Understand the elements of the Scientific Method and its limitations
3. Understand the basics of Number Theory, Natural Numbers, Prime Numbers
4. Understand the applications and numerical conversions using Exponential and Scientific Notation
5. Understand the basic history of our Financial System, and the basic concepts of Interest
6. Understand Percents and their application to Sales Tax, Discounts, Gain and Loss
7. Understand and apply basic financial concepts to: Simple, Compound and Continuous Interest
8. Understand basic units of Measurement, conversions within and to/from different systems
9. Understand concepts of Probability, Fundamental Theorem of Arithmetic, applications
10. Understand basic Statistical Measures and Types of Graphs
11. Understand the elements of Graph Theory, Mapping, Paths, Euler Circuits, Fluery's Algorithm

VII. Course Overview: This course makes extensive use of the text as assigned by the university. A variety of mathematical topics are introduced and explored with an emphasis on understanding fundamental principles, exploring problem solving using numerical analysis, estimation, and algebra. All work is done online through the MML (My Math Lab) site.

You may purchase a text that includes MML access, or just an MML access key (card). Most weeks will involve 3 text sections, and doing the homework online via multiple-choice questions. Immediate online help is available via videos, step by step solutions, power-point and text readings.

Grading is based on submitted homework, weekly quizzes, midterm and a final exam. To access the MML site. Go to: ([www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)) and then enter the course ID: trevorrow14887 You will need your access key to continue, or purchase one online from the MML site. You must be properly registered for MML by the end of the first week. For MML registration assistance (if needed) call: 800-667-6337.

### VIII. Grading Scale

A	Excellent	>90%	900 points or more
B	Good	>80%	800 points
C	Average	>70%	700 points
D	Below Average	>60%	600 points
F	Failure	<60%	599 points or less



## IX. Assignments and Grading

Specific Assignment		Points	% Of Grade	Due Date
Homework	(Weekly)	300	30	Weeks 1-4, 6-9
Weekly Quizzes	(Weekly)	300	30	Weeks 1-4, 6-9
Midterm Exam		200	20	Week 5
Final Exam		200	20	Week 10

1. Homework is completed online, with online help available. Must be completed before taking the weekly quiz. Usually no time limit other than due date.

2. Weekly Quizzes are based on the readings, online instruction and homework. One attempt, time limited

3. Midterm/Final Exam. Similar to weekly quizzes but comprehensive for period. One attempt, time limited.

4. Grade Book shows individual component and cumulative score for graded work.

5. Study plan provides additional optional practice and is updated based on missed questions from the homework, quizzes and exams. This does not directly affect your grade.

6. Due Dates are given online, usually all work for that week is due by Sunday, Midnight – Hawaii Time.

## X. Other elements

1. Student Conduct: Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details, or speak with the campus judicial officer at (808) 440-4275. Copies of the Student Handbook are available on the Chaminade website and in the Office of the Dean of Students.

## XI. Additional Departmental and University Policies

### 1. Electronic Devices

Since this is an online course, a computer with reliable Internet access is required; if any anomalies, work will be graded as submitted.

### 2. ADA Statement

Pursuant to several federal and state laws, including the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008, and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy equal access to academic programs, services, or activities. If a student would like to determine if they meet the criteria for accommodations, they should contact the Counseling Center at 808-735-4845 for further information.

### 3. Attendance & Tardiness

3.1 Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade. Online access is required, regular participation in assignments is required, missed or absent work is



graded as zero.

3.2 Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.

3.3. Start Early. You are encouraged to start early in the week to preclude the last minute situations (technical, family or work).

3.4 Missed Work: Since the site is available 24/7 there are no excused absences. If your work or military duties preclude regular participation you should take the course when uninterrupted time and access are available. Regular progress is required.

4. Policy on Make-Up Tests: There are no make up exams, homework, or quizzes. Please ensure a reliable Internet connection and computer is used before taking any time limited work (usually quizzes, and Final)

#### 5. Policy on Communication

The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the student's Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu). Using MML for online math email help will meet the above requirements.

#### 6. Laboratory Safety Information

Guidelines are established to provide instructions in maintaining safety for students, staff, and faculty while using any of the science laboratories at Chaminade University. The Division of Natural Sciences and Mathematics (NSM), along with the University Environmental Safety Office are responsible for enforcing the regulations set forth in the current Student Handbook. Queries should be addressed to: Dean of Natural Sciences and Mathematics (808) 440-4204; Environmental Safety Officer (808) 739-4811

#### 7. Title IX Declaration

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. Should you want to speak to a confidential source you may contact the following: Chaminade Counseling Center 808 735-4845 and or any priest serving as a sacramental confessor or any ordained religious leader serving in the sacred confidence role.

#### 8. Academic Honesty

Students are expected to have read and to abide by the "Student Rules of Conduct" which are available in your copy of Chaminade University's Student Handbook. Cheating in the form of plagiarism, collusion, deception will not be tolerated and will negatively affect your grade.

9. Modifications. The instructor may modify elements of this syllabus according to the operational needs of the class.

#### XII. Additional Information (notes)