



**Semester:** Winter 2016, 10 Weeks 1/11/16-3/20/16

**Course Code:** MA100-60-02

**I. Instructor:** T.Trevorrow, Adjunct Professor Mathematics  
**Email:** torrance.trevorrow@adjunct.chaminade.edu

**II. Location:** Class Meets at Pearl Harbor Education Center, Thursdays 5:30pm-9:40pm

**III. Required Text:** Thinking Mathematically, 6th edition, Blitzer, Pearson, ISBN 9780321999061.  
My Math Lab (MML) is required (see below) Included with new text, above.

**IV. Course Title: MA100 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. Mathematical knowledge and abilities will be developed with the following topics:

1. Inductive and Deductive Reasoning, Counter Examples, Estimation, Polya's model
2. Scientific Method, Conclusions, Errors
3. Number Theory, Natural Numbers, Prime Numbers
4. Exponential and Scientific Notation
5. Our Financial System, Fractional Reserve Ratio, Federal Deficit, Interest types
6. Percents, Sales Tax, Discounts, Gain and Loss, Reference points
7. Simple, Compound and Continuous Interest, Inflation
8. Units of Measurement, Conversions, Dimensional Analysis
9. Probability, Fundamental Theorem of Arithmetic, Expected Value - applications
10. Statistical Measures – Central Tendency, Dispersion, Normal Distribution, Graph Types

**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, how to write mathematics, exploring problem solving, evaluating media and doing research involving numerical analysis, estimation, and algebra. Graphing, drawing, and sketching used to aid in problem solving. Learning math can take a significant amount of time and practice so you are strongly encouraged to allow for up to 12hrs per week for reading, study, and coursework. A weekly schedule and suggested study methods will be provided.

**VIII. Grading Scale**

A Excellent  $\geq 90\%$ , B Good  $\geq 80\%$ , C Average  $\geq 70\%$ , D Below Average  $\geq 60\%$ , F Failure  $< 60\%$

**IX. Assignments and Grading**

<u>Specific Assignment</u>	<u>% Of Grade</u>	<u>Due Date</u>
Homework	20	Weekly, Submitted Online
Quizzes	20	Weekly, Submitted Online
Midterm Exam	20	Week 5, In Class
Final Exam	20	Week 10, In Class
Classwork	10	Work done in class, notes etc.



Homework is done online using MML and is not time limited other than due date.

Quizzes are taken online after the weekly homework, one attempt only, time limited.

Midterm and Final Exam are inclass written exams, usually short answer and show your working. Exams must be taken when schedule and are usually 2hrs.

Classwork consists of notes and work done in class – experiments, graphs etc.

Assignments are brief written (typed) papers as assigned. Any researched sources must be properly cited. No plagiarism.

Exam Conditions. Desks must be clear of all papers, books, bags, phones, etc, except for authorized material. One student per desk, students aligned in columns to minimize accidental viewing of others' work. No talking. Any exam anomalies bring to your professor.

Exam Content. Exams will cover any required reading, homework, lectures, or assignments which may include video viewing and research. Normal exam time will not be more than 2 hours and may be in the form of multiple choice, fill in the blank, show your working or essay style questions.

Supplies. A calculator with 2-Line Display is required, 3 ring notebook – loose leaf paper (required for submitted work), text, ruler with cm and inches, pencil, pen, eraser, some graph paper. Other material as discussed (dice, tape measure, balloons)

MyMathLab (MML) is the course site that will be used for completing your homework and weekly quizzes. It provides the opportunity for multiple practice questions, step by step question help, video tutorials, animations, power point review etc. Homework is time unlimited except for the due date, and online help is available. Quizzes are time limited, one attempt only which ends when the time expires or the window is closed or you disconnect or exit.

To access the MML site, go to: [www.mymathlab.com](http://www.mymathlab.com) and then enter the **course ID: trevorrow40225**. You will need your access key to continue or purchase one from the bookstore, or online from the MML site. You must be properly registered for MML by the end of the first week. For **MML registration assistance call: 800-667-6337**.

#### **Additional Information on MyMathLab:**

Interactive tutorial exercises: MyMathLab's homework and practice exercises are correlated to the exercises in the relevant textbook, and they regenerate algorithmically to give you unlimited opportunity for practice and mastery. Most exercises are free-response and provide an intuitive math symbol palette for entering math notation. Exercises include guided solutions, sample problems, and learning aids for extra help at point-of-use, and they offer helpful feedback when students enter incorrect answers.

eBook with multimedia learning aids: MyMathLab courses include a full eBook with a variety of multimedia resources available directly from selected examples and exercises on the page. You can link out to learning aids such as video clips and animations to improve their understanding of key concepts.

Study plan for self-paced learning: MyMathLab's study plan helps you monitor your own progress, letting you see at a glance exactly which topics you need to practice. MyMathLab generates a personalized study plan for you based on your test results, and the study plan links directly to interactive, tutorial exercises for topics you haven't yet mastered. You can regenerate these exercises with new values for unlimited practice, and the exercises include guided solutions and multimedia learning aids to give students the extra help they need. The study plan is for your focused practice but is not part of your class grade.

Sample Tests and Quizzes: Can be taken for practice or to build your study plan, but do not affect your grade.

**NOTE:** Access codes can only be used one time. If you purchased a used book that claimed that it included an access code, your code may already have been used and it will not work again. In this case, you must purchase a new access code.

**Customer Technical Support** go to <http://247pearsoned.custhelp.com> **Phone Support** 800-677-6337



## 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

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

### 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 & Participation

3.1 Students are expected to regularly attend and participate in 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.

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. Tardiness

Arriving late or leaving early may result in  $\frac{1}{4}$  to  $\frac{1}{2}$  grade reduction. A sign in/out sheet will be provided. Failure to accurately sign in or out will be considered absence for that class. You may not sign in or out for anyone else.

#### 3.4 Missed Classes and Returned Work

If you miss class, make arrangements with a fellow student to submit any due work and for any missed information and handouts.. Any work not picked up when returned will be recycled or donated to the hunt for extra-terrestrials.

### 4. Policy on Make-Up Tests

There are no make up exams or quizzes. No bonus work is provided to supplement grades, however some bonus questions or assignments may be available as part of course work and available to all students.

---

### 5. Policy on Communication

The University provides a Chaminade email address for all students. **Official Chaminade communications will be sent to the students' 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.

### 6. Laboratory Safety Information

While we do not have a formal lab, normal common sense is required. Anything can become dangerous. Should you have concerns inform your professor immediately and if appropriate contact: 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)**

[Some Dates – Verify if Important]

Semester Start/End	1/11/16
Registration Ends	1/19/16
Add/Drop Ends	1/19/16
Withdrawal Ends	2/26/16

<b>Midterm Exam</b>	2/11/16
<b>Final Exam</b>	3/17/16

Your Advisor: \_\_\_\_\_

Phone: \_\_\_\_\_

Classmate: \_\_\_\_\_

Phone: \_\_\_\_\_