

MA100 Quantitative Reasoning and Mathematical Skills

Online Jan-Mar 2016



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

Course Code: MA100-90-02

I. Instructor: T.Trevorrow, Adjunct Professor Mathematics

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II. Class Information: This is an online course using MyMathLab, check announcements daily. All Monday-Thursday emails are answered within 24hrs. Late Friday-Sunday emails will be answered Monday or earlier.

III. Required Text: Thinking Mathematically, 6th edition, Blitzer, Pearson, ISBN 9780321999061 or 32119991X. The former is a loose leaf edition of the text with MML, the latter is an MML subscription only, both include 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. 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, 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 (above) or just an MML access key (card). Immediate online help is available via videos, step by step solutions, power-point and text readings. Grading is based on submitted homework, weekly quizzes and a midterm and final exam. 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 online.

To access the MML site, go to: www.mymathlab.com and then enter the **course ID: trevorrow94885**. 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.

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

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	Weeks 1-9		
Weekly Quizzes	20	Weeks 1-9		
Midterm Exam	30	Week 5	2/13/16	Saturday Only
Final Exam	30	Week 10	3/19/16	Saturday Only

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

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

Midterm and Final Exam are one attempt*, time limited. Exams must be taken when schedule and are usually 2hrs. A special browser (provided online by the publisher) *may* be required for Midterm and Final exams. The exam is available only on the Saturday at the end of the corresponding week.

*One attempt begins when you start the quiz or exam and ends when the window is closed, time runs out, or you disconnect.

Grade Book. Shows individual components and cumulative grade for submitted work.

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 Polices

1. Electronic Devices

Since this is an online course, a computer with reliable Internet access is required. This is especially important for weekly quizzes and exams, so please make sure you have a reliable connection and system before starting.

2. ADA Statement

2.1 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 during the time allocated. Notification may be done by emailing the instructor's Chaminade email address. It is the instructor's prerogative to modify deadlines of course requirements. 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. (see modification 3.4)

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 in the week to preclude any last minute situations* (technology, family, or work related).

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

4. Policy on Make-Up Tests

4.1 There are no make up exams, homework, or quizzes. There are no resets or extensions for any course work regardless of circumstance. Reminder: Make sure you have a very reliable computer and Internet connection for any one-attempt only*, or timed work. Misadventures are considered "bad luck" and scoring will be based on what was recorded by MML

4.2 Midterm and Final Exams: Any connection or site issues where you feel that the MML was at fault, please contact them immediately and record the support ID. If it was their error and adequate proof from MML is provided then a new exam will be created and must be taken within 5 days of the scheduled exam date. It is the student's obligation to contact MML for their site/connection assessment and to have MML directly contact the professor via email with supporting evidence.

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 any CUH related email-related problems to the Helpdesk at 808-735-4855 or helpdesk@chaminade.edu. Using MML for email help "Ask My Professor" tab will meet the above requirements for any math questions.

6. Laboratory Safety Information Since this is an online course no specific safety information is required. However should you have concerns please 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 is 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 (Confirm if needed)

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

Midterm Exam	Week of: 2/13/16	Saturday Only
Final Exam	Week of: 3/19/16	Saturday Only

Your Advisor: _____

Phone: _____