

Instructor Dr. Armando I. Perez, Ph.D.

math 1350-fundamentals of mathematics I

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math 1351 fundamentals of mathematics II

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it is your responsibility to keep current with the course...recall that the grade you earn in this class is yours...it is not given to you...you earn it...that means your final grade depends ENTIRELY ON YOU!...i am merely a guide...here to assist you in completing the course...YOU MUST put forth effort if you wish to succeed!!! You will need to have access to a computer on a regular basis for some parts of this course.

final grade based on

major tests/homeworks. . . there will be tests/homeworks assigned throughout the semester...collectively they are worth 60% of your overall grade. . . there will be a time limit from the time I begin handing out tests . . . unless otherwise specified in class no calculators will be allowed . . . however, you may use them during non-test days. . . for tests, you will be allowed 2 attempts with only the higher grade being counted...

final exam. . . this will be worth 40% of your overall average. . . the exam is comprehensive . . . it is also mandatory, meaning you must take/complete the final or no credit will be awarded regardless of average. . .

opportunities for bonus points may be available on some occasions. . . failure to comply with course policies may result in points being deducted from your average . .

Make-ups are usually NOT offered for anything...under ANY circumstances...NO excuses...

Grading scale (total points)

F 0-59%

D 60-69%

C 70-79%

B 80-89%

A 90%+

NOTE: as future teachers, it is expected that you have the motivation and desire needed to succeed in this course...there will be many times when you will have to "learn" new

material or refresh your memories on old topics with no outside help. . . .part of being able to teach is being able to learn. . . .as such you **MUST** have the extra level of desire to achieve success in this course...

Make-ups are usually NOT offered for anything. . . .under ANY circumstances. . . .NO excuses. . . .

If I feel/discover that a student has plagiarized and/or cheated, the student will receive an "F" and the matter will be referred to the Dean of Student Development for possible disciplinary action including expulsion from LCC...

Attendance /Participation is vital if you wish to learn...if you fail to attend on a consistent basis and actively participate you may be dropped from class...however, it is still your responsibility to verify a drop has been initiated...you are old enough and mature enough to take responsibility for your academic career...it is your responsibility to keep up with the course...you are responsible for all material covered in class and from your text...

ONLINE STUDENT ATTENDANCE GUIDELINES

Responsibility for class attendance rests with the student.

Students are required to log in and participate in their respective online classes to remain enrolled. Students will be dropped from the class roster by the instructor according to College Attendance Regulations; however, a student may be reinstated by the Vice-President of Instruction upon the recommendation of the instructor(s) and an agreement from the student to make up all of the missed assignments, lab times and/or tests.

Students will be dropped after being absent:

1. *During a regular semester:*

- a. Students will be dropped with a "W" for **Unexcused absences** - failure to log-in to the course for 14 consecutive days.
- b. A grade of "W" will be given through the Friday of the twelfth week of the semester for all drops initiated by the instructor or by the student.
- c. After the Friday of the twelfth week of the semester, a grade of "F" will be given for the course at the end of the semester for unexcused absence.
- d. The instructor will drop an online student if they have never logged-in to their course prior to the certifying the rolls – on the 12th Class Day.

2. *During a summer session:*

- a. Students will be dropped with a "W" for **Unexcused absences** - failure to log-in to the course for 7 consecutive days.
- b. A grade of "W" will be given through the Thursday of the fourth week of the summer session for all drops initiated by the instructor or by the student.

- c. After the official drop date of the fourth week of the summer session, a grade of "F" will be given for the course at the end of the session for unexcused absence.
- d. The instructor will drop an online student if they have never logged-in to their course prior to certifying the rolls – on the 4th Class Day.

Students have the right to initiate a drop request from any or all classes by informing the instructor via email or phone and following this up at the Admissions/Registrar's Office.

Instructors will drop students in a timely manner according to the College's attendance policy in order to comply with the requirements of external funding agencies. **It is the student's responsibility to ensure that a drop slip be completed, whether it is student-requested or faculty-initiated.**

Absence from Final Examination: A student who is absent from a final examination will earn a grade of "0" for the examination. Students who do not take a final examination will earn an "F" in the course, unless they present an authorization for the absence. Students duly authorized not to take the final examination will receive a grade of "F" or an Incomplete grade on their transcript until they take the final examination. Such students must take the final within four months of the initial exam date. A fee of \$5.00 will be charged to a student for taking a final examination other than at the scheduled time, regardless of the reason for absence. This fee will be paid at the Bursar's Office. Only students with a legitimate excuse may exercise this privilege.

Final examinations cannot be re-taken. (Consult the College Catalogue for additional information.)

People who require physical/academic accommodations due to a diagnosed disability are urged to contact the Special Populations Office...Room 213...Kazen College Center...

Please email me if you need tutoring, advice on courses, etc...

Syllabus is tentative and subject to change as the semester progresses...

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**LAREDO COMMUNITY COLLEGE
COURSE SYLLABUS**

INSTRUCTOR:	
DEPARTMENT:	
PHONE NUMBER/EXTENSION:	

OFFICE HOURS:	
COURSE TITLE:	Fundamentals of Mathematics I
COURSE NUMBER:	Math 1350
COURSE LEVEL:	College
CONTACT HOURS (RANGE FOR STATE INFORMATION):	
LAB:	None
TEXTBOOKS:	Math for Elementary Teachers 9 th ed. By Billstein.
COURSE DESCRIPTION:	Topics include concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational and real number systems with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification. Prerequisite: MATH 1314.
CORE OBJECTIVES:	<p>The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.</p> <p><u>Exemplary Educational Objectives</u></p> <ol style="list-style-type: none"> 1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations. 2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically. 3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments. 4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results. 5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them. 6. To recognize the limitations of

	<p>mathematical and statistical models.</p> <p>7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.</p>
COURSE LEARNING OUTCOMES:	<p>Upon completion of this course, the student should be able to:</p> <ol style="list-style-type: none"> 1. identify patterns. 2. apply arithmetic, algebraic, and higher-order thinking to modeling and solving real-world problems. 3. use mathematical reasoning skills and formal logic to develop convincing mathematical arguments. 4. describe sets and their properties. 5. perform set operations. 6. add, subtract, multiply, and divide whole numbers, integers, rational numbers, and decimals. 7. compare and contrast different numerations systems. 8. use different numerations systems. 9. use addition, subtraction, multiplication, and division algorithms for whole numbers. 10. perform mental computations. 11. perform estimations 12. determine divisibility. 13. state and use properties of prime and composite numbers. 14. determine the greatest common divisor and least common multiple. 15. use proportional reasoning. 16. use non-terminating decimals, percents, real numbers, and complex numbers. 17. determine whether a relation is a function. 18. represent functions using the rule of four: verbally, analytically, algebraically, and graphically.
SCANS COMPETENCIES:	See enclosure.
SCANS ASSESSMENT:	Results of personal classroom interaction, tests, quizzes, assignments.
TEACHING STRATEGIES METHODS OF INSTRUCTION:	See Instructors 1 st day handouts.

OUTCOMES ASSESSMENT:	
METHODS AND CRITERIA FOR EVALUATION:	
GRADING SCALE:	<p>A = 100-90% B = 89-80% C = 79-70% D = 69-60%</p> <p>The Semester Progress Report will be available on OLE Web (http://ole.laredo.edu) The instructor will notify you when the grade will be available and for how long.</p> <p>Students must access the Semester Progress Report and Final grades through OLE web (http://ole.laredo.edu).</p>
DISCLAIMER:	<p>Every attempt has been made to make the contents of this syllabus informative and accurate. Content of the syllabus is subject to revision and change in the event of extenuating circumstances. Changes will be distributed to you in writing.</p>
GENERAL SYLLABUS COMPONENTS	<p>The following syllabus components are found online. Students will be responsible for reviewing the complete syllabus on http://www.laredo.edu/syllabus/</p> <ol style="list-style-type: none"> SCANS Competencies SCANS Assessment Attendance Regulations Disability Resource Center Grade Appeal Classroom Etiquette Emergency Procedures Course Study Guide

Revised

8/8/06

The updated official version of the LCC Catalog will be the on-line catalogue.

www.laredo.edu

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INSTRUCTOR:	
DEPARTMENT:	
PHONE NUMBER/EXTENSION:	
OFFICE HOURS:	
COURSE TITLE:	Fundamentals of Mathematics II
COURSE NUMBER:	Math 1351

COURSE LEVEL:	College
CONTACT HOURS (RANGE FOR STATE INFORMATION):	
LAB:	None
TEXTBOOKS:	Math for Elementary Teachers 9 th ed. By Billstein.
COURSE DESCRIPTION:	Topics Include concepts of geometry, probability, and statistics as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 - 8) teacher certification. Prerequisite: MATH 1350 or MATH 1314.
COURSE LEARNING OUTCOMES:	Upon completion of this course, the student should be able to: <ol style="list-style-type: none"> 1. Perform single and multistage probability experiments, including simulation and data collection 2. Solve problems using counting principles 3. Determine odds and expected value 4. Find measures of central tendency and variation 5. Interpret statistical graphs 6. Perform regression analysis 7. Use basic geometric principles 8. Identify polygons, angles, and their properties 9. Apply congruence through geometric constructions 10. Perform constructions of other geometric problems such as parallel and perpendicular lines 11. Use similar triangles and similar figures 12. Find areas of polygons and circles 13. Apply the Pythagorean formula 14. Determine surface area and volume of geometric figures 15. perform transformations, translations, rotations, reflections, and glide reflections on geometric figures 16. identify symmetries and tessellations
TEACHING STRATEGIES METHODS OF INSTRUCTION:	See Instructors 1 st day handouts.
OUTCOMES ASSESSMENT:	
METHODS AND CRITERIA FOR EVALUATION:	

GRADING SCALE:	<p>A = 100-90% B = 89-80% C = 79-70% D = 69-60%</p> <p>The Semester Progress Report will be available on OLE Web (http://ole.laredo.edu) The instructor will notify you when the grade will be available and for how long.</p> <p>Students must access the Semester Progress Report and Final grades through OLE web (http://ole.laredo.edu).</p>
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