

Clarendon College
MATH 1351 -- Fundamentals of Mathematics II
Fall 2011
3 credit hours

Instructor: Linda Rowland

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Office Hours: Posted on Office window

Text: Mathematical Reasoning for Elementary Teachers, by Long, DeTemple and Millman, 5th Edition, Addison Wesley.

Supplies: MathXL, calculator, pencil and paper

Purpose of the Course: Math 1351 is the second semester of a two semester sequence (1350/1351) designed for prospective elementary and middle school teachers. This course extends the foundational ideas of mathematics so that prospective elementary/middle school teachers have an explicit understanding of elementary analysis.

Course Description: Concepts of geometry, probability, statistics as well as algebraic properties as related to Elementary/middle school mathematics with an emphasis on problem solving and critical thinking.

Course Objectives: Upon successful completion of this course, the student will be able to demonstrate

1. Use of the variable and the principles governing its use in Algebra.
2. Knowledge of various geometric figures-both 2 and 3 dimensional- and the basic formulas associated with each.
3. An ability to analyze geometric figures with respect to congruency and similarity.
4. Graphing of functions and transformation techniques of graphs.
5. A knowledge probability and its applications
6. Knowledge of basic statistical organization of data, and calculations of measures of central tendencies.

Methods of Instruction:

1. Reading assignments.
2. Lecture with discussion and examples.
3. Problem assignment on MathXL
4. Discussion of problems.

Class Policy:

1. Classroom Conduct: Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to:

- a) obtaining an examination, classroom activity or laboratory exercise by stealing or collusion;
- b) discovering the content of an examination, classroom activity, laboratory exercise or homework assignment before it is given;
- c) using an unauthorized source of information during an examination, classroom activity, laboratory exercise or homework assignment;
 - a. entering an office or building to obtain unfair advantage;
 - b. taking an examination for another person;
 - c. completing a classroom activity, laboratory exercise, homework assignment or research paper for another person;
 - d. altering grade records;
 - e. using any unauthorized form of electronic communication device during an examination, classroom activity or laboratory exercise;
 - f. Plagiarism. Plagiarism is the using, stating, offering or reporting as one's own, an idea, expression or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name and the type of cheating involved. Students who are reported as cheating to the Dean of Students will receive a F for the course.

NO CELL PHONES, CD PLAYERS, IPODS OR ANY OTHER ELECTRONIC GADGETS ALLOWED IN CLASS. (EXCLUDES CALCULATORS)

1. Accommodations Statement: Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687-9737). We will work with you to make whatever accommodations we need to make.

4. **Withdrawal:** If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a “W” on your transcript instead.

Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of “F” on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from The office and has the instructor sign the slip before the 12th class week. **Remember, a student is only allowed to drop the same class twice before he/she will be charged triple the tuition amount for taking the class a third time or more.**

Furthermore, beginning with the fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6th, he/she will no longer be able to withdraw from any classes.

Drop add Date:

Last day to withdraw with W: 11/18/2011

Thanksgiving Holiday November 23 – November 27th

Finals: December 12th – December 15th

Grading Policies:

Tests 25%

Homework 15%

Final 40%

Lesson Plan 20%

Grading: A 90-100

B 80-89

C 70-79

D 60-69

F 59 and below

Attendance Policy:

Class attendance is NOT optional. More than 1 “unexcused” absence will result in grade deductions. If you cannot attend classes send an e-mail or leave a voice message to my phone before the next class period, otherwise it is considered “unexcused”.

Course Outline:

- Chapter 1: Thinking Critically due 9/15/2011
- Chapter 2: Sets and Whole Numbers due 9/30/2011
- Chapter 8: Algebraic Reasoning and Representation due 9/30/2011
- Chapter 10: Probability due 10/15/2011
- Chapter 11: Geometric Figures due 10/15/2011
- Chapter 12: Measurement: length, Area, and Volume due 11/15/2011
- Chapter 13: Transformation, Symmetries, and Tiling’s due 11/30/2011
- Chapter 14: Due 12/5/2011
- Lesson Plan due 12/9/2011