COURSE SYLLABUS- WAYLAND BAPTIST UNIVERSITY
EIELSON A.F.B.
AUGUST 18-NOVEMBER 1 FALL 08 TERM

MATH 1304 College Algebra
WEDNESDAY 6:00 P.M. to 10:00 P.M.

Instructor: Dr. Karen E. Dempster **Office: WBU at Eielson AFB**

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Office Hours: Wed. 10:00-6PM or by arrangement at additional times.

DESCRIPTION: - This course develops skills in rational expressions, radicals, complex numbers, graphs, second-degree equations in one or two variables, exponential and logarithmic functions, sequences, series, and the Binomial Theorem.

Prerequisites: This class is for students who do not qualify (or have need) for Calculus or Trigonometry, but who HAVE had two years of algebra and one of geometry in high school, or who have had two of the three courses with a grade of "B" or above.

TEXTBOOK:
BOOK **ED**
INTERMEDIATE ALGEBRA FOR COLLEGE STUDENTS, ed. 7th --
Isbn # **Authors** **YEAR**
0-13-238357-8, ALLEN R. ANGEL 2008
Publisher
Pearson/PRENTICE HALL.

CALCULATOR: You will need a Texas Instruments TI-82 or TI-83 or TI-84 Graphing Calculator. (DO NOT buy a TI-85 or higher as the tables and controls are very different). There is a much cheaper Casio Graphing Calculator (FX-9750GPlus) that works well if more than one student in the class purchases it- it takes at least two people to figure out some of the registers.

OUTCOME COMPETENCIES:

At the conclusion of the course, you should be familiar with the following topics and be able to use them to set up and solve mathematical models of real-world problems.

Rational Expressions and Equations
- The Domains and of Rational Functions
- Multiplication and Division of Rational Expressions
- Addition and Subtraction of Rational Expressions
- Complex Fractions
- Solving Rational Equations
- Rational Equations: Application and Problem Solving
- Variation

Roots, Radicals, and Complex Numbers
- Roots and Radicals
- Rational Exponents
- Multiplying and Simplifying Radicals
- Dividing and Simplifying Radicals
- Adding and Subtracting Radicals
- Solving Radical Equations
- Complex Numbers

Quadratic Functions
- Solving Quadratic Equations by Completing the Square
- Solving Quadratic Equations by the Quadratic Formula
- Quadratic Equations: Applications and Problem Solving
- Writing Equations in Quadratic Form
- Graphing Quadratic Equations

Exponential and Logarithmic Functions
- Composite and Inverse Functions
- Exponential Functions
- Logarithmic Functions
- Properties of Logarithms
- Common Logarithms
- Exponential and Logarithmic Equations
- Natural Exponential and Natural Logarithm Functions

Conic Sections
- The Parabola and the Circle
- The Ellipse
- The Hyperbola

Sequences, Series, and the Binomial Theorem
- Sequences and Series
- Arithmetic Sequences and Series
- Geometric Series
- The Binomial Theorem

COURSE EXPECTATIONS:

Attendance: This is a real must for this course. Attendance is required. Excessive late arrivals or early departures will be taken into consideration when assessing absences. Material will be discussed in class and included in the exams that are not in the book. It is the student's responsibility to obtain any material missed when absent regardless of the reason for the absence. The student must not miss any more than 3 classes. Absences beyond 3 classes or 25% of the

class time may result in a failure in the class. In case of TDY's or any absence, the instructor should be notified as soon as possible- preferably BEFORE the absence.

Homework and Reading: Assigned homework and reading are to be completed **AFTER** the class session for which they are assigned.

Quiz/Tests: All material assigned with be reviewed and tested each week. Quizzes will occur in all weeks when a test is not scheduled. Class discussions and Lectures are based on the reading.

Disability Policy: "It is the university policy that no otherwise qualified disabled person be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university." Your instructor is an ADA qualified dyslexic, and although bright, she makes frequent reversals- for which students get quiz points if they catch the mistake before the instructor corrects it. She believes in turning her handicap into a student advantage. She also will not tolerate any discrimination based on handicap. If you have a handicap, please inform the instructor as soon as possible.

Incomplete Policy: A grade of incomplete is changed if the work required is completed prior to time set in the WBU catalog. If work is not completed by this date, the grade of "I" is automatically converted to the grade of "F".

COURSE EVALUATION
Grading Scale:

A = 90-100%	I = Incomplete
B = 80-89%	W = Withdrawal
C = 70-79%	
D = 60-69%	
F = Below 60%	

Grading Weight: Your grade will be based on total points earned divided by total possible points, on quizzes/tests. Class points are added as bonus points. This result will then be assigned a grade based on the Grading Scale above.

Quiz / Exam Information:
1. A quiz will be given weekly over the homework assignment from the previous date, and after review of any questions based upon that assignment. .

2. If a student misses a class for any reason, he/she is still responsible for the quiz given on that date. The student will be responsible for scheduling a time to make up the missed quiz during the next class meeting that they are in attendance. Dr. Dempster will meet with you to review what was covered in class.
3. Any quiz not completed by the last regularly scheduled class period will be counted as a zero, unless arrangements are made ahead of time.
4. Make-up exams may be arranged with the instructor if an exam grade is low. The make up

exam will be more rigorous than the original exam.

5. Missed quizzes, case studies or exams (w/prior notice and/or excuse) may be taken at the WBU office during regular office hours. Call to make an appointment.

ACADEMIC INTEGRITY/CONDUCT Wayland Baptist University is committed to maintaining and upholding intellectual integrity. All students, faculty, and staff have obligations to prevent violations of academic integrity and take corrective action when they occur. The adjudication process will include the sanction imposed on students who commit the following academic violations, which may include a failing grade on the assignment, a failing grade for the course, suspension or dismissal from the University.

1. **Plagiarism:** Presenting as one's own the ideas, words or products of another. Plagiarism includes the use of any source to complete academic assignments without proper acknowledgment of the source. (Remember all sources must be cited inside the body of the text and the bibliography page to be complete. Failure to cite in both spots will fall under the violation of plagiarism).

2. **Cheating:** is a broad term that includes the following:
   a. Giving or receiving help from an unauthorized person(s) or materials during examinations.
   b. The unauthorized communication of examination questions prior to, during, or following administration of the examination.
   c. Collaboration on examinations or assignments expected to be individual work.
   d. Fraud and deceit, that includes knowingly furnishing false or misleading information or failing to furnish appropriate information when requested, such as when applying for admission to the University.

"Students are responsible for reading, understanding, obeying, and respecting all academic policies, with added emphasis being placed upon academic progress policies, appearing in the Wayland Baptist University Academic Catalog applicable to their curriculum and/or program of study."

ASSIGNMENT SCHEDULE

EOO means Every Other Odd (1, skip 3, do 5, skip 7, do 9 etc).
ODD means do the odd numbered problems

This schedule is subject to **CHANGE**. Assignments are reviewed each class meeting and any changes will be noted at that time.

Date	Reading	Do Problems
8/20/08	Sec 5.1 Pg 298-303	Pg. 303-304, 1-75 EOO
	Sec 5.2 Pg 308-313	Pg. 314-315, 1-77 EOO
	Sec 5.3 Pg 317-324	Pg. 324-326, 1-111 EOO
8/27/08	Quiz	

	Sec 5.4 pg 327-331	Pg. 331-332, 1-57 ODD
	Sec 5.5 pg 335-343	Pg. 343-344, 1-87 ODD
9/3/08	Quiz	
	Sec 5.6 Pg 346-350	Pg. 350-352, 1-91 EOO
	Sec 5.7 Pg 354-355	Pg. 355-356, 1-73 E00
	Sec 5.8 Pg 358-365	Pg. 365-367, 1-95 EOO
	Chapter 5 Summary	
	Pg. 370-374	Pg. 374-378, 1-159 EOO
9/10/08	Test Chapter 5	
	Sec 6.1 Pg 381-388	Pg. 388-391, 1-105 EOO
	Sec 6.2 Pg 392-399	Pg. 400, 5-59 EOO
9/17/08	Quiz	
	Sec 6.3 Pg 403-406	Pg. 407, 3-57 EOO
	Sec 6.4 Pg 409-416	Pg. 417-418, 9-51 EOO,59-83 ODD
9/24/08	Quiz and Skip 6.5	
	Sec 6.6 Pg 432-436	Pg. 437, 1-19 ODD
	Ch 6 Summary	
	Pg. 440-443	Pg 443-445, 1-75(skip 51) EOO
10/1/08	Ch 6 Test	
	Sec 8.1 Pg 517-524	Pg 525-526, 1-89 EOO
	Sec 8.2 Pg 527-536	Pg 536-537, 1-85 EOO
	Sec 8.3 Pg 539-544	Pg 544-545, 1-27 ODD
10/8/08	Test Ch 8	
	Sec 7.1 Pg 448-454	Pg 454-456, 1-113 EOO
	Sec 7.2 Pg 457-462	Pg 463-464, 1-123 EOO
	Sec 7.3 Pg 465-471	Pg 471-472, 1-103 EOO
10/15/08	Quiz	
	Sec 7.4 Pg 472-477	Pg 477-478, 1-109 EOO
	Sec 7.5 Pg 480-485	Pg 485-487, 1-133 EOO
10/22/08	Quiz	
	Sec 7.6 Pg 489-495	Pg 495-496, 1-97 EOO
	Sec 7.7 Pg 500-505	Pg 506-508, 1-131 EOO
	Ch 7 Review	
	Pg 508-512	Pg 512-515, 1-161 EOO

10/29/08 Final Exam Review, and time for