

MATH 1314-521, Summer 2005
TR 6:00-7:50PM
FN 2.106

Instructor: Dr. Bentley Garrett
Office: ECN 3.204
Phone: 972-883-4236
E-mail: Via WebCT (see section below)*
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Office hours: TR 4:00-4:45 PM

Text: *Understanding Intermediate Algebra*, 5th Edition, Hirsch and Goodman
(Student Solutions Manual is recommended)

Topics covered in this course: equations and inequalities; introduction to functions; equations of a line and linear systems; polynomial functions; rational expressions and functions; exponents and radicals; quadratic functions; operations on functions; exponential and logarithmic functions.

Text sections covered: 1.1-1.5, 2.1-2.4, 3.1-3.5, 4.1-4.4, 5.1-5.7, 6.1-6.6, 7.1-7.7, 8.2-8.7, 9.1-9.5, 10.1-10.5

Grading:	Quiz Average	10%
	Exam Average	60% (20% each)
	Final Exam (comprehensive)	30%
	(6:00pm, Thursday, July 28, 2005)	

There will be three (3) Midterm Exams as well as weekly Quizzes. **I will drop the lowest of the 3 exam grades.** I will also drop the lowest one fourth of the Quiz grades given before computing your Quiz Average.

Example grades: Quizzes: 66, 70, 50, 100, 90, 80, 75, 75 (if eight Quizzes given)
Exam1: 75, Exam 2: 86, Exam3: 70, Final: 88
Quiz Average: $(100 + 90 + 80 + 75 + 75 + 70)/6 = 81.7$ (drop two lowest)
Exam Average: $(75 + 86)/2 = 80.5$ (drop lowest)
Final grade: $.1*81.7 + .6*80.5 + .3*88 = 82.87$

Grade Scale:

A+	96.5-100	C+	76.5-79.4
A	92.5-96.4	C	72.5-76.4
A-	89.5-92.4	C-	69.5-72.4
B+	86.5-89.4	D+	66.5-69.4
B	82.5-86.4	D	62.5-66.4
B-	79.5-82.4	D-	59.5-62.4
		F	below 59.5

Class policies:

- Exams must be taken in pencil. It is preferable that Quizzes be done in pencil as well.
- No make-up exams are given except under extraordinary circumstances. Solutions will be available on WebCT. (see *)
- **There will be short weekly quizzes based on the assigned homework. These will be given each Tuesday and will cover the previous week's homework. (No quizzes will be given during exam weeks.)** The number of quizzes given in the semester is dependent on the time factor. Solutions will be available on WebCT. (see end of syllabus)
- **Odd-numbered homework problems will be assigned but not graded.** However, it is essential that you are able to work all problems thoroughly in order to succeed in this class. It is okay to discuss the problems with classmates, but make sure you can work them by yourself after you discuss. Assignments will be available on WebCT. (see *)
- I am always looking for a solution – not the answer. In other words, I want to see all steps leading to the answer. Answers without any logical support will receive very little, if any, credit.
- It is essential that you attend all lectures to be successful in this class.
- All phones and pagers must be turned off during class.

Calculators: No graphing calculators are allowed – only scientific calculators, where appropriate. If you don't have a scientific calculator, buy one – they are inexpensive.

Additional help:

UTD Math Lab: located in McDermott Library in Room 2.412 (phone: 972-883-6707) The hours are 10am until 8pm, Monday through Thursday. On Friday the hours are 10am until 2pm. The Math Lab provides free walk-in tutoring for students.

Disability Services: contact Kerry Tate at 972-883-2098.

Online resources:

*WebCT: <http://webct.utdallas.edu> You must enter your NETID username and password to logon to WebCT. Here, you will find the syllabus, problem sets, quiz/test solutions. Any messages/e-mails concerning the class will also appear on WebCT. This is also where you should contact me.

To retrieve your NETID: go to <https://netid.utdallas.edu>, then click on the link that says “[Get your NetID and set your password](#)” to get your netid.

Important dates:

Exam1 – Tues., June 7

Exam2 – Tues., June 28

Exam3 – Tues., July 19

Final Exam – Thurs. July 28, 6:00pm

Last drop day without a W – May 26

Withdrawal period with W: May 27-June 12

Withdrawal period with WF/WP: June 13 – July 11

(Note: Exam dates are fixed, except under unusual circumstances.)

Tentative class schedule:

DATE	SECTIONS COVERED
May 17 T	1.1-1.3 Real Numbers, Operations, Algebraic Expressions
19 R	1.4-2.1 Translating Sentences to Algebra, First-Degree Equations/Inequalities, Equations as Mathematical Models
24 T	2.2-2.4 First Degree Equations/Applications, First Degree Inequalities/Applications, Absolute Value Equations/Inequalities
26 R	3.1-3.3 Coordinate System/Lines, Graphs and Equations, Relations & Functions
31 T	3.4-4.1 Function Notation, Interpreting Graphs, Lines and Slopes
June 2 R	4.2-4.4 Equations of a Line and Math Models, Linear Systems, Graphing Linear Inequalities
7 T	Exam 1 5.1-2 Polynomials as Math Models; Sums, Differences and Products of Polynomials
9 R	5.3-5.5 Special Products, Factoring Greatest Common Factor, Factoring Trinomials
14 T	5.6-6.1 Solving Polynomial Equations, Polynomial Division, Rational Functions
16 R	6.2-6.4 Equivalent Fractions, Mult./Div. of Rational Expressions, Sums/Differences of Rational Expressions
21 T	6.5-6.7 Mixed Operations And Complex Fractions, Fractional Equations/Inequalities, Literal Equations
23 R	6.8-7.2 Applications: Rational Functions, Integer Exponents, Scientific Notation
28 T	Exam 2 7.3-4 Rational Exponents/Radical Notation, Simplifying Radical Expressions
30 R	7.6-8.1 Adding/Subtracting Radical Expressions, Multiplying/Dividing Radical Expressions, Radical Functions and Equations
July 5 T	8.2-8.4 Solving Quadratic Equations ,Completing the Square, Quadratic Formula
7 R	8.5-8.7 Equations Reducible to Quadratic Form, Graphing Quadratic Functions, Quadratic/Rational Inequalities
12 T	9.1-9.3 Split Functions, Composition Functions, Types of Functions
14 R	9.4-10.1 Inverse Functions, Variation, Exponential Functions
19 T	Exam 3 10.2-3 Logarithms , Properties of Logarithms
21 R	10.4-5 Common/Natural Logs and Change of Base, Exponential/Logarithmic Equations, Review
July 28 R	Final Exam 6:00-8:45PM