

Professor: Dr. Talitha Washington

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Office hours: Monday & Friday 9-10, Tuesday & Thursday 9:30-12:30, and Wednesday 8-10

Text: *College Algebra*, Second Edition, Dwyer and Gruenwald

Catalog Description: **MATH 105 College Algebra (3)** Treats properties of linear, quadratic, polynomial, exponential and logarithmic functions, inequalities and systems of equations. Develops critical thinking and emphasizes real-world applications in the sciences and topical issues. Background should include three semesters of high school algebra. Fall, spring.

Course Learning Objectives: As a student in this course, you are expected to acquire computational facility with the topics introduced in the catalog description in addition to a basic understanding of the concepts involved and an enlarged understanding of the need for precise language.

General Education: Math 105 is designated as a general education mathematics course. As such, in addition to the mathematical content, applications to other disciplines will be featured and effective writing will be emphasized. Clarity of expression and correctness of syntax, both in terms of English and mathematical usage, will have a bearing on grades.

Methods of Instruction: Typical class periods will include a discussion of homework problems followed by an introduction of new material, although not always in that order. You are expected to read the text and complete all assigned homework. We will use a graphing calculator (TI-83, 84) as a tool.

Grading: As a guideline, the following components will contribute to the final grade:

- Four Tests – 400 points
- Comprehensive Final Exam – 200 points
- Group Project – 50 points
- Quizzes – 100 points
- Extra Credit for putting and explaining a problem on the board – 2 points each

The lowest test score will be replaced by the percentage obtained on the final exam. The course grade will be determined according to the scheme A=100-90; B=89-80; C=79-70; D=69-60. Plus and minus grades will be given for scores that lie in the upper and the lower portions of these ranges. Other factors which may (positively) affect your course grade are: the quality of our final exam, attendance, and your interest in the course.

Course requirements and policies:

a. Calculators: We will use a graphing calculator throughout the course. If you don't already have one, consider purchasing a TI-83+ or TI-84+. Calculators with symbolic algebra capability (e.g. TI-89 or TI-92) will not be allowed during exams.

b. Attendance: You are expected to attend class on time every day. However, if you miss a day, it is up to **you** (not me, or your classmates) to catch up and learn what you have missed.

c. Quizzes: The quiz problems will be similar to homework problems and will take 10-15 minutes of class time. There are NO make-ups for quizzes. At the end of the semester, the 2 lowest quiz scores of each student will be dropped.

d. Homework: As the name suggests, this is work to be done outside of class. Essentially all of the math you learn is from the problems that you practice.

e. Group Project: The focus will be to investigate applications of mathematics and emphasizes writing skills (complete sentences, clearly stated goals and explanations, etc). Hence, the report must be typed and double-spaced. You may neatly hand write any formulas or graphs if you wish. Write your paper in paragraph form, i.e., do NOT enumerate! You may work in groups of 2-3 people and submit one project per group. Late papers will NOT be accepted under any circumstances.

f. Make-ups: Make-up exams will be given only in extreme circumstances, and only if I am aware of the circumstances prior to the exam. In particular, make-ups will never be given to accommodate travel plans.

g. Honor Code: It is expected that students are familiar with and will comply with the terms of the University's Academic Honor Code. Collaboration on homework is allowed and encouraged, but giving or receiving help of any kind on exams and quizzes is strictly prohibited.

h. Advice & Expectations:

- Spend **3-6 hours** each week outside of class working on the problems. Plan on spending an additional 2-4 hours in preparation for each of the exams. Read the book!
- Work on homework each day and seek assistance when you are confused. All of the math you learn is from the problems that you practice.
- Prior to seeking assistance, you should make a serious attempt to complete the recommended problems and should be prepared to discuss the approach taken. You should be prepared with specific, well-articulated questions.
- Keep all notes, assignments, handouts, CORRECTED tests, etc. in a 3-ring binder. This will help as you prepare for the final.

i. Accessibility: Please let me know immediately if you have a learning or physical disability requiring accommodation. For more information, contact the Office of Counseling and Health Education at 488-2663.

Homework Assignment

Section	Exercises
1.1	Pg 11: 1, 3, 5, 9, 12, 16, 19, 23, 25, 31, 35, 37, 39, 47
1.2	Pg 21: 5, 7, 13, 23
1.3	Pg 33: 5, 7, 11, 13, 15, 19, 23, 25, 29, 31, 33, 35, 39, 47, 53
1.4	Pg 47: 3, 7, 9, 11, 15, 21, 25, 29, 31, 33, 37, 39, 43, 49, 55, 57, 61, 63, 69, 71, 75, 77, 81
1.5	Pg 56: 1, 3, 5, 8, 13, 14, 21, 23, 27, 29, 33, 37, 45, 47, 55, 57, 63, 65, 82
1.6	Pg 66: 1, 3, 5, 7, 9, 11, 13, 17, 19, 23, 27, 31, 35, 41
1.7	Pg 76: 1, 3, 9, 13, 15, 17, 27, 33, 49
1.8	Pg 89: 1, 5, 9, 13, 19, 23, 29, 31, 39, 43, 49, 51, 57, 61, 67, 69, 81, 83, 87, 95, 97
2.1	Pg 109: 1, 7, 9, 13, 17, 21, 25, 27, 29, 31-36, 41, 47, 55
2.2	Pg 125: 1, 3, 9, 11, 19, 21, 25, 37, 43
2.3	Pg 136: 3, 7, 9, 11, 19, 25, 29, 35, 47, 57, 59, 63, 67, 77
2.4	Pg 147: 1, 5, 11, 15, 17, 18, 25, 29, 31, 33, 43, 47, 55
2.5	Pg 157: 1, 3, 5, 9, 11, 13, 19, 33, 39, 43, 53, 67, 99
2.6	Pg 170: 1, 5, 9, 15, 31, 37, 43, 57
2.7	Pg 185: 1, 3, 7, 15, 21, 33, 36, 37, 45, 63
3.1	Pg 221: 3, 7, 13, 15, 17, 19, 21, 25, 29, 33, 35, 37, 39, 47, 55, 57, 75
3.2	Pg 235: 1, 3, 5, 7, 9, 13, 15, 19, 23, 31, 33, 35, 37, 39, 45, 49, 57, 69
3.3	Pg 255: 3, 5, 7, 15, 17, 21, 25, 27, 37, 47
3.4	Pg 270: 3, 7, 9, 11, 13, 15, 19, 23, 31, 41
3.5	Pg 280: 1, 3, 5, 9, 11, 13, 21, 23, 25, 35, 37, 45
3.6	Pg 292: 1, 3, 5, 7, 11, 13, 17, 21, 23, 29, 31, 33, 37, 47, 58
3.7	Pg 309: 1, 3, 5, 7, 9, 11, 13, 15, 19, 25, 32, 35
5.1	Pg 395: 1, 3, 5, 7, 11, 15, 17, 21, 25, 27, 38
5.2	Pg 408: 1, 3, 9, 11, 13, 21, 31, 33, 35, 39, 43, 47, 49, 63, 67, 69
5.3	Pg 420: 1, 3, 9, 11, 15, 19, 23, 27, 31, 37, 51, 61
5.4	Pg 432: 1, 5, 9, 13, 25, 27, 31, 40
2.8	Pg 199: 1, 5, 9, 21, 31, 37, 43, 45
7.6	Pg 569: 3, 7, 8, 9, 10, 13, 15, 17, 19, 33, 35, 39, 43
7.7	Pg 610: 3, 5, 7, 13, 15, 17, 19

Schedule

Week #	Monday	Wednesday	Friday
1		8/24/05 Intro, 1.1	8/26/05 1.2
2	8/29/05 1.3	8/31/05 1.4	9/2/05 1.5, Quiz
3	9/5/05 1.6	9/7/05 1.7	9/9/05 1.8, Quiz
4	9/12/05 Review	9/14/05 Exam 1	9/16/05 2.1
5	9/19/05 2.2	9/21/05 2.3	9/23/05 2.4, Quiz
6	9/26/05 2.5	9/28/05 2.6	9/30/05 2.7, Quiz
7	10/3/05 Review	10/5/05 Exam 2	10/7/05 3.1
8	10/10/05 Fall Break	10/12/05 Group Project	10/14/05 3.2, Quiz
9	10/17/05 3.3	10/19/05 3.4	10/21/05 3.4, 3.5, Quiz
10	10/24/05 3.5	10/26/05 3.6, Group Project Due	10/28/05 3.7, Quiz
11	10/31/05 Review	11/2/05 Exam 3	11/4/05 5.1
12	11/7/05 5.2	11/9/05 5.3	11/11/05 5.3, 5.4, Quiz
13	11/14/05 5.4	11/16/05 2.8, 7.6	11/18/05 7.6
14	11/21/05 7.7	11/23/05 Thanksgiving	11/25/05 Break
15	11/28/05 Review	11/30/05 Exam 4	12/2/05 Review
16	12/5/05 Last Day-Review	12/7/05 Reading Day	12/9/05

Final Exam Tuesday December 13 at 12:30 PM

Please note that this schedule may vary according to our progress in class.