

MATH 145 ELEMENTARY ALGEBRA 1 GLENDALE COLLEGE: 2 UNITS

10:45 AM TO 11:50 AM MW, 10:45-11:35 TR **FRIDAY MANDATORY SI**

Room: AS 114

Spring 2011

TEXT: Elementary Algebra, Custom Edition for GCC 8th Edition

by Charles P. McKeague

STUDENT'S SOLUTION MANUAL

DR. SID KOLPAS

PREREQUISITES: Placement is based on a composite of test scores and academic background, or satisfactory completion of Math 155 or Math 158 or 4 units of Math 255.

1. PATH TO SUCCESS:

- A. ATTEND **ALL** LECTURES AND TAKE GOOD NOTES.
 - 1. **YOU MUST PURCHASE MY LECTURE NOTES IN THE STUDENT STORE; THEY SHOULD COST APPROX. _____ THEY'LL MAKE THE LECTURES GO MORE SMOOTHLY.**
- B. READ THE CORRESPONDING MATERIAL IN THE BOOK.
- C. DO ALL ASSIGNED HOMEWORK.
 - *IF YOU HAVE DIFFICULTY, HIRE A QUALIFIED TUTOR, CALL A FRIEND IN CLASS, OR GO TO THE TUTOR CENTER ON CAMPUS. "ASK 3 BEFORE YOU ASK ME."
 - *HOMEWORK IS DUE THE NEXT SESSION AFTER IT IS ASSIGNED UNLESS YOU ARE ILL.
- D. ASK QUESTIONS ABOUT THE HOMEWORK AT THE BEGINNING OF THE NEXT SESSION; HOWEVER, THERE WILL NOT BE ENOUGH TIME TO ANSWER EVERY QUESTION.
 - *PLEASE DON'T BE SHY. THE LIFE YOU SAVE MAY BE YOUR OWN!
- E. STUDY THE NIGHT BEFORE THE EXAM.

2. HOMEWORK:

- A. A **MINIMUM** OF 2 TO 3 HOURS PER SESSION.
- B. FOR THE MOST PART, ODD NUMBERED EXERCISES WILL BE ASSIGNED SO YOU CAN CHECK YOUR ANSWERS BEFORE COMING INTO CLASS (SEE ATTACHED ASSIGNMENT SHEET).
 - *IF YOU MISS A PROBLEM, GIVE IT A 2nd OR 3rd TRY BEFORE GIVING UP AND ASKING ME THE NEXT SESSION.
 - I DON'T HAVE MUCH TIME TO GO OVER HOMEWORK.**
 - USE THE STUDENT SOLUTION MANUAL TO HELP YOU.**
- C. NO LATE ASSIGNMENTS WITHOUT A LEGITIMATE EXCUSE.
 - *I'LL RETURN THE HOMEWORK THE NEXT DAY.
 - *MAKE UP WORK IS DUE BY THE DAY OF THE EXAM.

- D. IF YOU MADE AN *HONEST* ATTEMPT ON EACH PROBLEM YOU WILL GET CREDIT FOR THE ASSIGNMENT; OTHERWISE YOU WILL RECEIVE NO CREDIT.
- E. THE PERCENT OF ASSIGNMENTS FOR WHICH YOU RECEIVED CREDIT, AVERAGED WITH YOUR PROJECTS' GRADE, WILL COUNT AS ONE EXAM GRADE, OR APPROX. 12% OF YOUR FINAL GRADE.

3. EXAMS:

- A. THERE ARE 5 EXAMS. YOU MUST USE BLUE BOOKS TO TAKE THE EXAMS
- B. THE FINAL EXAM WILL BE COMPREHENSIVE (**WEIGHT OF 2 EXAMS**). IT IS WORTH APPROXIMATELY 30% OF YOUR GRADE! YOUR **FINAL EXAM IS** _____
- C. EXAMS WILL BE GIVEN AT THE END OF EACH CHAPTER.
- D. HOMEWORK, COUNTS AS 1 EXAM.
- E. THE GRADING SCALE FOR FINAL GRADES WILL BE 90-80-67-56 AS THE ABSOLUTE MINIMUM REQUIREMENTS FOR A-B-C-D. **HOWEVER, I RESERVE THE RIGHT TO CURVE GRADES OR ADJUST THE GRADING STANDARDS ON EXAMS IN THE STUDENT'S FAVOR.**
- F. THE EXAMS WILL BE SIMILAR TO THE ASSIGNED HOMEWORK PROBLEMS. THERE ARE CHAPTER TESTS IN THE BOOK. THEY CAN BE USED AS ADDITIONAL PREPARATION FOR EXAMS.
- G. THERE ARE NO MAKE UP EXAMS IN THIS CLASS.
- H. I WILL **DROP YOUR LOWEST EXAM SCORE** WHEN COMPUTING FINAL GRADES. **HOWEVER, I WILL NOT DROP A MISSED TEST**, THE HOMEWORK GRADE, THE FINAL EXAM, OR THE QUIZZES.
- I. IF YOU ARE CAUGHT CHEATING ON AN EXAM, YOU'LL RECEIVE A 0. I'LL REFER A SECOND INSTANCE OF CHEATING TO THE COLLEGE ADMINISTRATION.
- J. I GRADE EACH PROBLEM ON LIKE AN ESSAY, AND I DO GIVE PARTIAL CREDIT. GENERALLY, ON A 10 POINT QUESTION, THE ANSWER IS WORTH 1 POINT AND THE WORK LEADING TO THE ANSWER IS WORTH 9 POINTS.
- K. I WILL TRY VERY HARD TO RETURN EXAMS THE NEXT DAY, WITH A MODEL SOLUTION KEY AND GRADING STANDARDS.

4. THE COURSE:

MATH 145 IS THE FIRST SEMESTER OF ELEMENTARY ALGEBRA. IT IS THE EQUIVALENT OF 1 SEMESTER OF FIRST YEAR HIGH SCHOOL ALGEBRA.

- A. A SPECIAL FEATURE OF THIS COURSE WILL BE THE USE OF GRAPHICS UTILITIES ON THE COMPUTER AND A GRAPHING CALCULATOR TO VISUALIZE CONCEPTS.
- B. YOU CAN USE A CALCULATOR ON THE CHAPTER 2, 3, 4, & 5 TESTS. IT CANNOT BE A GRAPHING CALCULATOR.

5. WHY TAKE THE COURSE?:
- A. IT IS NEEDED TO GRADUATE.
 - B. IT IS NEEDED FOR ANOTHER SKILL SUCH AS MEDICINE, ENGINEERING, COMPUTER SCIENCE, AUTO MECHANICS, ETC.
 - C. IT IS A PREREQUISITE FOR STILL A HIGHER MATH CLASS.
 - D. IT IS SOMETHING YOU "ALWAYS WANTED TO LEARN".
6. ATTENDANCE:
- A. I TAKE ROLL EACH SESSION.
 - B. ON AND AFTER THE 10TH LECTURE/SI ABSENCE YOU ARE IN JEOPARDY OF BEING DROPPED FROM THE CLASS. PEOPLE WHO ARE HABITUALLY ABSENT ARE THE ONES WHO DROP OR WHO EVENTUALLY FAIL.
 - C. **IF YOU DECIDE TO DROP THE CLASS, IT IS YOUR RESPONSIBILITY TO DO SO, ESPECIALLY BEFORE THE FINAL DROP DATE.***** (GET THE MESSAGE?)**
DROP DEADLINE: _____ . AFTER _____
AND UP TO _____ YOU RECEIVE A "W" IF YOU DROP.
7. BEHAVIOR:
- A. YOU'RE IN COLLEGE, AND IT WAS YOUR CHOICE TO BE HERE.
 - B. YOU ARE EXPECTED TO BEHAVE LIKE AN ADULT, AND TO TREAT OTHERS WITH RESPECT.
 - C. CLASS STARTS PROMPTLY ON THE HOUR. IF YOU ARRIVE LATE, WALK IN UNOBTRUSIVELY. SINCE I TAKE ROLL AT THE BEGINNING OF CLASS, LET ME KNOW YOU'VE ARRIVED LATE AT THE END OF CLASS.
 - D. THE COLLEGE REQUESTS THAT THERE BE NO FOOD IN CLASS.
8. INSTRUCTOR AVAILABILITY:
- A. MY OFFICE HOURS ARE:
 - B. I AM IN THE MATH DISCOVERY CENTER ON:
 - C. MY OFFICE IS SG 321
 - D. MY EXTENSION ON CAMPUS IS 5378

SEMESTER ASSIGNMENTS: Math 145

EOO MEANS EVERY OTHER ODD.
WE HAVE THE LUXURY OF SPENDING AN AVERAGE OF ALMOST 2 DAYS
PER SECTION. THUS, IF SOME OF THE FOLLOWING ASSIGNMENTS
PROVE TO BE TOO LENGTHY, WE CAN SPEND SOME EXTRA TIME ON
THEM.

THIS IS SUBJECT TO REVISION.

| | |
|-----|-----------|
| 1.1 | 1-105 ODD |
| 1.2 | 1-91 ODD |
| 1.3 | 1-81 ODD |
| 1.4 | 1-97 ODD |
| 1.5 | 1-111 ODD |
| 1.6 | 1-111 ODD |
| 1.7 | 1-105 ODD |
| 1.8 | 1-73 ODD |
| 1.9 | 1-101 ODD |

Try the Chapter 1 test

EXAM 1

| | |
|-----|---------------------|
| 2.1 | 1-111 ODD; 117-139 |
| 2.2 | 1-61 ODD; 67-93 |
| 2.3 | 1-113 EOO; 84 |
| 2.4 | 1-77 ODD; 79-97 EOO |
| 2.5 | 1-99 ODD |
| 2.6 | 1-65 ODD |
| 2.7 | 1-45 ODD; 51-77 EOO |
| 2.8 | 1-77 ODD; 79-99 EOO |
| 2.9 | 1-77 ODD |

Equations with Absolute Value 1-37 ODD

Inequalities with Abs. Value 1-29 ODD

Try the Chapter 2 test

Exam 2

3.1 1-71 ODD

3.2 1-53 ODD

3.3 1-67 ODD

3.4 1-67 ODD

3.5 1-69 ODD

3.6 1-45 ODD; 51-71 ODD

3.7 1-41 ODD

Try the Chapter 3 test

EXAM 3

4.1 1-33 ODD; 37-65 EOO

4.2 1-49 ODD; 51-81

4.3 1-43 ODD; 49-79 EOO

4.4 1-37 ODD

Systems of Equations in 3 var's 1-19 ODD

Try the Chapter 4 test

Exam 4

5.1 1-107 ODD; 109-139 EOO

5.2 1-91 ODD; 103-123 EOO

5.3 1-81 ODD; 83-105 EOO

5.4 1-77 ODD

5.5 1-111 ODD

| | |
|---------------------|----------|
| 5.6 | 1-79 ODD |
| 5.7 | 1-79 ODD |
| 5.8 | 1-47 ODD |
| Intro. To Functions | 1-23 ODD |
| Function Notation | 1-61 EOO |

Try the Chapter 5 test

Exam 5

REVIEW AS TIME PERMITS. A PRACTICE FINAL WILL BE PROVIDED.

COMPREHENSIVE FINAL ON CHAPTERS 1-5. Worth 200 POINTS.