

## GAVILAN COLLEGE

SPRING 2006

## MATH 402

## PRE-ALGEBRA

## SECTION 4567

**Instructor:** Hope Jukl  
**Text:** Prealgebra, 4<sup>th</sup> Edition, by K. Elayn Martin-Gay, 2004  
**Class Meets:** TuTh 8:10 – 9:25, F 8:35 – 9:25 LS 102 3.0 Units  
**Office Hours:** M: 11:10 – 12; TuTh: 1:10 – 2; PH 113;  
 W: 11:10 – 12; F: 10-11; MATH LA  
**Office:** PH 113  
**Telephone:** 846 - 4947  
**E-mail:** hjukl@gavilan.edu  
**Prerequisite:** Math 402 with a grade of 'C' or better

**Course Description:** This course is a prealgebra course. The purpose of this course is to prepare the students for a course in Algebra and to develop and cultivate the student's problem solving skills. The student will cover the following topics:

- 1) Integers - Addition, Subtraction, Multiplication and Division of signed numbers.
- 2) Introduction to Algebraic expressions and methods of solving algebraic equations.
- 3) Fractions - Addition, Subtraction, Multiplication and Division.
- 4) Decimals - Conversion between decimals and fractions. Addition, Subtraction, Multiplication and Division.
- 5) Percent - Percent problems, including interest, sales tax, and percent increase and decrease.

**Course Learning Outcomes:**

1. Perform basic operations with whole numbers, integers, fractions and decimals without the aid of a calculator .
2. Analyze a variety of problems, decide on a correct method or strategy of solution, implement the strategy to solve the problem, and evaluate solution to determine if it is reasonable using estimation skills .
3. Simplify algebraic expressions and solve equations involving integers, fractions and decimals without the aid of a calculator.
4. Develop and utilize math specific study skills and test-taking strategies.
5. Set up and solve applied problems involving proportion, ratio, unit conversion, and percents.

**Required Materials:** Textbook.

**Attendance:** "Students missing one more class hour than the unit value for a particular course, without making prior arrangements may, at the instructor's option be dropped without possibility of credit." *A student who stops attending is not automatically dropped from class. If you cannot continue with the class, contact the instructor or the Admissions and Records Office.*

**"NRS" Deadline – Friday, February 24; "W" Deadline – Friday, April 21.**

Attending all lectures and completing all assignments is essential for success in this course. Lectures will reinforce and elucidate the material presented in this textbook. **It is the student's responsibility to keep up with the work and homework assignments. Two hours of study should be spent outside of class for each hour spent in class.** It is suggested that students read the sections to be discussed in class prior to class. This will facilitate the learning of terminology and definitions.

**Student Honesty Policy:**

Students are expected to exercise academic honesty and integrity. Violations such as cheating will result in disciplinary action which may include recommendation for dismissal.

**Student Special Services:**

Students requiring special services or arrangements because of hearing, visual, or other disabilities should contact their instructor, counselor, advisor, or Disables Student Services Office.

**Occupational/Vocational Statement:**

Occupational/Vocational Students - limited English language skills will not be a barrier to admittance to and participation in Vocational Education Programs.

**Homework:** Homework assignments will be collected on a regular basis (See schedule for due dates). Each homework group will be worth 10 points. The best 10 out of 12 assignments will count towards your grade. 10% of Final Grade

**Review Assignment:** There will be 5 in-class mid-chapter reviews worth 25 points each. The best 4 out of 5 assignments will count towards your grade. 10% of Final Grade

**Test Review:** There will be a test review assigned before each exam. The purpose of the review is to aid the student in studying for exams. Each review will be worth 25 points. 10% of Final Grade.

**Exams:** There will four (4) Chapter Exams worth 100 points each. If you are unable to take an exam on the scheduled date, you may make arrangements to take it early. If you are forced to miss an exam you must call before the exam starts. *No make-up exams will be given except for valid, verifiable reasons.* Students who have taken all five exams, may use the percentage score received on the final exam to replace their lowest test score, if the final exam score is higher. 40% of Final Grade

**Final:** A comprehensive 2 - hour final exam contributing to 20% of Final Grade will be given on: **Thursday, May 25, 8 - 10 am**

<b>Grades:</b> Chapter Homework	10%
Mid Chapter Reviews	10%
Test Reviews	10%
Final Review	10%
Exams	40%
Final Exam	20%

**Grading Scale:**

<b>A:</b> 100% - 93%	<b>B+:</b> 89% - 87%	<b>C+:</b> 79% - 75%	<b>D:</b> 69% - 60%
<b>A-:</b> 92% - 90%	<b>B:</b> 86% - 83%	<b>C:</b> 74% - 70%	<b>F:</b> Below 60%
<b>B-:</b> 82% - 80%			

**MATH 402 SCHEDULE – SPRING 2006**

<b>MONDAY</b>	<b>TUESDAY</b>	<b>WEDNESDAY</b>	<b>THURSDAY</b>	<b>FRIDAY</b>
JAN. 23	24 1.8	25	26 1.9	27 Last Day To Add 2.1
30	31 2.2 HW 1 Due	FEB. 1	2 2.3	3 Last Refund Day MCH Review 1 HW 2 Due
6	7 MCH 1 Review Due 2.4,2.5	8	9 2.5	10 CH2 Review
13	14 EXAM 1 HW 3 Due CH 2 Review Due	15	16 3.1, 3.2	17 NO CLASSES PRESIDENT'S DAY
20 NO CLASSES PRESIDENT'S DAY	21 3.2, 3.3	22	23 3.3, 3.4	24 NRS Deadline MCH Review 2 HW 4 Due
27	28 MCH 2 Due 3.4, 3.5	MAR. 1	2 3.5	3 CH 3 Review
6	7 EXAM 2 HW 5 Due CH 3 Review Due	8	9 4.1, 4.2	10 4.2
13	14 4.3	15	16 4.4	17 4.5
20	21 4.5	22	23 4.6	24 MCH Review 3 HW 6 Due
27	28 MCH 3 Due 4.7	29	30 4.8	31 Word Problems
APR. 3	4 CH 4 Review Word Prolems Due	5	6 5.1, 5.2	7 EXAM 3 HW 7 Due CH 4 Review Due
10	11 5.3, 5.4	12	13 MCH Review 4 HW 8 Due	14 NO CLASSES SPRING BREAK
17 NO CLASSES SPRING BREAK	18 NO CLASSES SPRING BREAK	19 NO CLASSES SPRING BREAK	20 NO CLASSES SPRING BREAK	21 W Deadline NO CLASSES SPRING BREAK
24	25 5.5, 5.6 MCH 4 Due	26	27 5.6, 5.7	28 5.8
MAY 1	2 6.1 – 6.3 HW 9 Due	3	4 CH 5 Review	5 EXAM 4 HW 10 Due CH 5 Review Due
8	9 7.1, 7.2	10	11 7.2, 7.3	12 7.4 HW 11 Due
15	16 7.5	17	18 REVIEW	19 REVIEW
22	23	24	25 FINAL 8 – 10 AM HW 12 Due	26

**HOMWORK ASSIGNMENTS**

<b>SECTION</b>	<b>PAGE</b>	<b>PROBLEMS</b>	<b>HW GROUP</b>
1.8	85	1 - 93 odd	1
1.9	93	1-55 odd	1
2.1	117	1 -89 odd	2
2.2	125	1 - 77 odd	2
2.3	133	1 - 93 odd	2
2.4	143	1 - 113 odd	3
2.5	153	1 - 101 odd	3
Ch. 2 Test	163	ALL	
3.1	177	1 - 91 odd	4
3.2	185	1 - 77 odd	4
3.3	195	1 - 79 odd	4
3.4	205	1 - 81 odd	5
3.5	213	1 - 27 odd, 29 - 41 EOO	5
Ch. 3 Test	227	ALL	
4.1	241	1 - 89 odd	6
4.2	255	1 - 77 odd, 79 - 83	6
4.3	267	1 - 85 odd	6
4.4	281	1 - 91	6
4.5	293	1 - 91 odd, 93 - 96	6
4.6	305	1 - 59 odd, 60 - 65	7
4.7	315	1 - 59 odd	7
4.8	329	1 - 89 odd	7
Ch. 4 Test	351	ALL	
5.1	369	1 - 81 odd	8
5.2	381	1 - 95 odd	8
5.3	395	1 - 67 odd	8
5.4	405	1 - 69 odd	8
5.5	417	1 - 57 odd	9
5.6	425	1 - 95 odd	9
5.7	435	1 - 29 odd	9
5.8	441	1 - 53 odd	9
Ch. 5 Test	453	ALL	
6.1	461	1-55 odd	10
6.2	467	1 - 45 odd	10
6.3	479	1 - 53 odd	10
7.1	523	1 - 109 odd	11
7.2	535	1 - 47 odd	11
7.3	545	1 - 35 odd	11
7.4	555	1 - 39 odd	12
7.5	565	1 - 33 odd	12
Ch. 7 Test	587	ALL	

## Math 402 - Pre-Algebra - Information Sheet - Spring 2006

- Instructor: Russell Lee      Office: PH 107      Phone: 848-4881
- Office Hours: Daily, 9:15 - 9:45; TuTh, 2:00-3:15; and by appointment. PH 107
- Meets: Monday and Wednesday, 9:45 - 11:00; Friday, 10:10 - 11:00. PH 102.
- Text: Prealgebra, 4th Edition, 2004. K. Elayn Martin-Gay, author. Prentice Hall, publisher.
- Advisory: Math 400 with a grade of "C" or better or assessment test recommendation.
- Attendance: Regular attendance is highly recommended. It is the responsibility of the student to drop the course by obtaining a drop card from the registrar.
- Honor Code: Students are expected to exercise academic honesty and integrity. Violations will result in disciplinary action that may include recommendation for dismissal.
- Special Needs: Students requiring special arrangements because of a disability should contact their instructor, counselor, or the Disabled Student Services Office.
- Course Objectives and Goals: Obtain a working knowledge and understanding of integers, fractions, decimals, percentages, exponents, scientific notation, order of operations, variables, expressions, polynomials, equations, critical thinking and applications.  
We will cover most of Chapters 1 through 10 at approximately one section per day.
- Evaluation: Students will receive a letter grade based upon the following:
  - 1) Quizzes. 20% of grade.
  - 2) Exams, roughly one each chapter. 60% of grade.
  - 3) Comprehensive two-hour final exam. 20% of grade.
90% of the total possible points will be required for an A, 80% for a B, 70% for a C, 60%, for a D.
- Homework/ Quizzes: Homework is the most important part of the class and will be assigned daily. Success in this class requires doing homework and asking informed questions about it. There will be weekly quizzes, announced and unannounced (pop), based upon the homework. Quiz grades will be based upon your problem solving methodology, completeness, and neatness.  
**Make-up quizzes will not be given.**
- Exams: Exams will be given on Fridays during the regularly scheduled class period. The date of each exam will be announced in class. Roughly speaking, exams will be given on the Friday following the completion of a chapter. The best preparation for the exams is to do the homework. The exams will be straightforward for those who complete and understand the homework problems. Exam problems will likely require synthesis of more than one concept. All exams are closed book, closed notes. NO calculators unless specified.  
**Make-up exams will not be given.**
- Final Exam: Friday, May 26, 2006. 8:00 - 10:00 a.m. Room PH 102. **Without exception!**