

HENRY FORD COMMUNITY COLLEGE
MATHEMATICS DIVISION COURSE SYLLABUS
MATH 074 – 97 and 98: Pre Algebra (4 cr. hrs) Fall 2010

INSTRUCTOR: Mr. Chade Saghir

CONTACT INFORMATION:

Telephone: (313) 845-9631 (leave message)

E-Mail: cfsaghir@hfcc.edu

Office: L-249

Office Hours: By appointment only

CATALOG DESCRIPTION: This course is intended to prepare students for algebra in Math 080 or Math 100. Topics covered include fractions, percents, measurement and geometry, signed numbers, linear equations and proportions. Techniques of problem solving and applications are included throughout the course.

COURSE GOALS:

- (1) To review arithmetic processes with an emphasis on how they carry over to algebra.
- (2) To provide an introduction to the terminology and techniques of elementary algebra.
- (3) To develop the problem-solving skills needed to interpret, analyze and solve applied problems requiring basic algebraic skills.

MAJOR CORE OBJECTIVES: Upon successful completion of this course students should be able to:

- (1) Evaluate expressions using the order of operations.
- (2) Perform basic operations with fractions.
- (3) Solve linear equations involving one or two steps.
- (4) Express comparisons as ratios in simplest form.
- (5) Solve proportions.
- (6) Convert between fractions, decimals and percents.
- (7) Perform basic operations with signed numbers.
- (8) Find a mean, median or mode for a set of data.
- (9) Answer questions using information from bar graphs, line graphs and pie charts.
- (10) Create bar graphs, line graphs and pie charts.
- (11) Approximate measurements in the major English and metric units for mass, area and length.
- (12) Convert between the major English and metric units for mass, area and length.
- (13) Compute perimeter, area and volume for common geometric shapes.
- (14) Solve applied problems using the mathematics learned in this class.

TEXTBOOK AND MATERIALS:

1. *Basic Mathematics through Applications, 4/E*, Akst and Bragg
ISBN-10: 0321500113 ISBN-13: 9780321500113 Publisher: Addison-Wesley Copyright: 2009

Student's Solutions Manual for Basic Mathematics through Applications, 4/E (Optional)
Fusfield © 2009 | Addison-Wesley | Cloth ISBN-10: 0321500512 | ISBN-13: 9780321500519

2. A scientific calculator is **recommended**. You can use on some exams.

CORE COURSE TOPICS:

Chapter 1: Whole Numbers	Sections 1.5 and 1.6	Chapter 4: Solving Simple Equations	Sections 4.1 to 4.3
Chapter 2: Fractions	Sections 2.1 to 2.4	Chapter 9: More on Algebra	Sections 9.1 to 9.3
Chapter 5: Ratio and Proportion	Sections 5.1 to 5.2	Chapter 8: Basic Statistics	Sections 8.1 and 8.2
Chapter 6: Percents	Sections 6.1 to 6.3	Chapter 10: Measurement and Units	Sections 10.1 and 10.2
Chapter 7: Signed Numbers	Sections 7.1 to 7.5	Chapter 11: Basic Geometry	Sections 11.2 to 11.5

-over-

INSTRUCTIONAL POLICIES:

Grading:

By division policy all students must take a common, comprehensive final examination that assesses all course objectives. Furthermore, this exam must count for at least 15% of the final exam grade. **IF YOU DO NOT TAKE THE FINAL YOU WILL NOT RECEIVE A LETTER GRADE FOR THE COURSE.**

Here are the assessments I will use to determine your grade:

Exams (375 points): 3 exams worth 125 points each will be given. You will have a one week window in which to take each exam in the Henry Ford Community College Learning Lab. (Details on times and procedures will be announced closer to exam time). If you are taking this class at a distance contact me as soon as possible for directions on arranging a proctor.

Assignments/Bookwork (375 points): At the beginning of 15 different weeks I will check to see you have completed your online homework on CourseCompass. Each week you can earn up to 25 points.

Participation (375 points): Each week of the semester you will be able to earn up to 25 points for participating in the course by posting comments in the discussion boards, or by completing other activities specified on the weekly assignment list. I will add up your scores for the all weeks and take the lower of your score, or 375 points as your participation grade.

Final Exam (375 points): You will have a final exam 50 multiple choice questions covering all objectives in the course. You must take this in the Learning Lab between Tuesday and Friday of exam week. (Details on times and procedures will be announced closer to exam time).

Grading Scale*:

90% + = A

80% - 89% = B

70% - 79% = C

60% - 69% = D

LT 60% = E

Exams: 375 Pts. (25%)

Assignments: 375 Pts. (25%)

Participation: 375 Pts. (25%)

Final Exam: 375 Pts. (25%)

Total Pts. Poss. 1500 Pts.

*3's or lower = "- " 8 or higher = "+" (example: 88 = B+ 85 = B 83 =B-) No A+ or D- grades.

Drop Policy:

College Policy: Students may officially drop a class and receive a DR grade anytime up until the end of the tenth week. If a student stops attending without officially withdrawing, the instructor may record either an E or a DR grade.

Instructor Policy: Students may officially drop a class and receive a DR grade anytime up until the end of the tenth week. If a student stops attending without officially withdrawing, the instructor will record a DR grade.

Academic Dishonesty:

College Board of Trustees Policy #8500 (adopted 3/17/97):

"...It shall be the policy of the College that determination of the fact of academic dishonesty by a student shall be a matter of individual judgment by the instructor. The instructor may administer a penalty up to, and including, failure in the particular course..."

Instructor Policy:

Academic dishonesty will result in failure of the course.

MATHEMATICS DIVISION POLICY ON CUT-OFF DATE FOR STUDENT DROP-DOWNS (MOVE-UP)

"Registered students may only drop-down (move-up) to another math class within the first **three** weeks of the Fall and Winter semesters. In the Spring and/or Summer semesters, students have only **one and one-half** weeks to drop-down (move-up) to another class. In order to drop-down (move-up), a student must:

- 1) Obtain the written permission of his/her current instructor stating that the student was misplaced,
- 2) See the Mathematics Division Director for assistance in finding open sections, and
- 3) Obtain the written permission of the instructor in the new lower (higher) course.
- 4) The student must then officially file an Add-Drop form at the Registration office."

Fall 2010 – Math 074 – Sections 97 and 98: Pre-Algebra Online

Tentative course plan this schedule may be altered throughout the semester as necessary.

Week	Start Date	Book Homework
1	8/26	Section 1.5: pg. 64: 1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 25, 29, 33, 37, 41, 45, 51, 55, 57, 59, 67 Section 1.6: pg. 74: 1 to 21 odds
2	9/2 Labor Day 9/6	Monday we will be observing Section 2.1: pg. 94: 1, 3, 5, 7, 9, 11, 13, 15 and 23-81 odds Section 2.2: pg. 107: 1 - 177 every other odd Section 2.3: pg. 128: 1 – 151 every other odd Section 2.4: pg. 144: 1 – 151 every other odd
3	9/9	Section 5.1: pg. 266: 1 – 85 odds. Section 5.2: pg. 277: 1-60 odd, 69
4	9/16	Exam 1: Sections 1.5, 1.6, 2.1, 2.2, 2.3, 2.4 Section 6.1: pp. 297: 1 – 103 odds.
5	9/23	Section 6.2: pg. 310: 1-79 odds. Section 6.3: pg. 321: 1, 3, 5, 7, 15, 17, 19, 21, 23, 25, 27, 33, 35, 37, 41
6	9/30	Section 7.2: pg. 351: 1 – 65 every other odd Section 7.3: pg. 358: 1-51 odds
7	10/7	Section 7.4: pg. 365: 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 75, 77, 79, 82 Section 7.5: pg. 371: 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 71, 73, 75
8	10/14	Section 4.1: pg. 226: 1 – 79 odds Section 4.2: pg. 236: 1 – 77 odds Section 4.3: pg. 247: 1 – 77 odds
9	10/21	Exam 2: Sec 5.1, 5.2, 6.1, 6.2, 6.3, 7.2, 7.3, 7.4 and 7.5. Section 9.1: pg. 427: 1-79 odds
10	10/28	Section 9.2: pg. 434: 1 – 13, 15-29 odds, 35-59 odds, 67, 75-79 odd Section 9.3: pg. 440: 1 – 19
11	11/4	Section 8.1: pg. 391: 1 – 16 Section 8.2: pg. 404: 1 – 15
12	11/11	Section 10.1: pg. 458: 1-57 odds Section 10.2: pg. 470: 1-53 odds
13	11/18	Exam 3: 4.1, 4.2, 4.3, 8.1, 8.2, 9.1, 9.2, 9.3, 10.1 and 10.2. Section 11.2: pg. 506: 1 – 35 odds
14	11/25	Thanksgiving Break
15	12/2	Section 11.3: pg. 518: 1 – 35 odds Section 11.4: pg. 528: 1, 2, 3, 4, 5, 6, 9, 11, 13, 15, 18, 21, 23
16	12/9	Review for Final Exam
17	12/14 – 12/18	Final Exam

Exams will be taken in the Learning Lab at HFCC during normal learning lab hours on any day in the indicated week:

Exam 1: September 16 – September 22

Exam 2: October 21 – October 27

Exam 3: November 18 – November 24

Final Exam: December 14 – December 18