

MASTER SYLLABI

AHMA 1000 Allied Health Math (revised 12/05)

CIP CODE: 51.1105

CREDIT HOURS (Lecture/Lab/Total): 2/1/3

CONTACT HOURS (Lecture/Lab/Total): 30/30/60

COURSE DESCRIPTION:

This applied mathematics course provides a review for the student who needs to master the fundamental numerical operations of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. This course also assists the student in acquiring a better understanding of percent, ratio and proportion, measurements, algebraic concepts, and geometry. This course is designed to provide a foundation for enrollment into an allied health program and improving proficiency in career preparation courses.

PREREQUISITES: Math COMPASS score 47 - 54

COURSE OBJECTIVES:

Upon successful completion of this course, the student will be able to:

1. Add, subtract, multiply, and divide whole numbers.
2. Determine the least common denominator (LCD).
3. Add, subtract, multiply, and divide mixed numbers and fractions.
4. Write an improper fraction as a mixed or whole number.
5. Write a mixed number as an improper fraction.
6. Determine equivalent fractions and reduce fractions to lowest terms.
7. Add, subtract, multiply, and divide decimals.
8. Compare fractions to decimals; convert fractions to decimals.
9. Write a rational number in simplest form and as a decimal.
10. Write the ratio of two quantities in simplest form.
11. Solve proportions and determine whether they are true.
12. Use ratios and proportions to set up and solve problems.
13. Write a percent as a decimal.
14. Write a fraction or a decimal as a percent.

MIDPOINT

15. Find amount when the percent and the base are given.
16. Find the percent when the base and the amount are given.
17. Find the base when the percent and the amount are given.
18. Evaluate exponential expressions.
19. Compare the value of integers using $>$, $<$, or $=$.
20. Demonstrate an understanding of real-life time applications including clocks and time zones.
21. Solve problems using averaging and estimating techniques.
22. Convert fractions, decimals, and percents, demonstrating an understanding of equivalents.
23. Demonstrate real-life applications of U. S. Standard (household), metric, and apothecary measurement: weight, length, height, and volume.
24. Convert between the three different systems of measurement: U. S. Standard (household), metric, and apothecary measurement.
25. Use the order of operations agreement to simplify expressions.
26. Evaluate variable expressions.
27. Translate a sentence into an equation and solve.
28. Read and interpret line graphs, data, tables and flowcharts.

OTHER COURSE REQUIREMENTS:

- Attend class regularly and on time. The instructor reserves the right to set class attendance policy.
- Bring supplies/materials to each class meeting.
- Ask instructor for assistance as needed.
- Complete assignments in a timely manner.
- Turn off all beepers and cellular phones.
- No eating, drinking, or smoking in class.

EXPANDED COURSE OUTLINE: (Instructor will provide a detailed outline of PLATO coursework for the semester.)

TEXTBOOKS AND OTHER MATERIALS:

Faculty will utilize the PLATO web-based system. Supplemental instructional materials are provided within the PLATO system of learning as well as from a campus published list of approved resale materials.

ATTENDANCE POLICY:

All students must be officially enrolled in any course that they attend. It is expected that students will attend scheduled classes regularly and on time. If an absence occurs, it is the responsibility of the student to make up all missed work, if approved by the instructor. Students who stop attending a course and do not officially drop, may receive a grade of "F" for all coursework missed that may result in a punitive final grade. An instructor may drop a student for excessive absences if the student misses 10% of the class.

This policy shall be superseded by any more stringent attendance policy required by a regulatory or licensing body having jurisdiction over program requirements. The attendance policy for each class must be included in the course syllabi.

Attendance will be tracked and maintained for various reporting purposes.

EVALUATION AND GRADING:

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
59% below	F

ACADEMIC HONESTY:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. In addition to other possible disciplinary sanctions, which may be imposed through the regular institutional procedures as a result of academic misconduct, your instructor will assign an zero for the exercise or examination that evidences academic misconduct for the first offense and assign an "F" for the course for repeated offenses.

STUDENTS WITH DISABILITIES:

The College complies with Section 504 and the Americans with Disabilities Act. Students with disabilities who seek accommodations must make their requests known by contacting the Disabilities Coordinator at the beginning of each semester. If a disability is identified later in the semester, a non-retroactive accommodation plan will be developed.