

Information About MATH 1000

Course and Number: MATH 1000 – Mathematics skills for Health Care Professionals

Credits: 1 **Class Hours Per Week:** 1

Prerequisites: DEV 0115 with a “C” or better, or placement by COMPASS or ACT test

COURSE DESCRIPTION: MATH 1000 is designed to provide students with the mathematical skills and strategies required to successfully work in the allied health fields. The course begins with a basic review of math skills necessary for administering basic health care. The course also includes ratio and proportion calculations, an introduction to the metric and apothecary systems of measure, metric-household-apothecary conversions, strengths of solutions, general accounting concepts applicable to running medical offices, unit conversions between Fahrenheit and Celsius scales, dose conversions, and a brief introduction to descriptive statistics.

SPECIAL COURSE REQUIREMENTS: None

LEARNING OUTCOMES: To review basic math skills and to introduce mathematical strategies necessary for the student to succeed in the basic and technical courses in the Veterinary Technology and the Medical Assisting Technology.

GENERAL EDUCATION GOALS: This course addresses the following Columbus State general education goals:

- Critical Thinking
- Quantitative Literacy

TEXTBOOK, MANUALS, REFERENCES, AND OTHER REQUIRED MATERIALS:

- *Math Skills for Health Professionals*, Rebecca Wallace Hickey, Saunders Elsevier, 2010.
ISBN 978-1-4160-4755-1
- **Graphing or scientific calculator (REQUIRED).**

UNITS OF INSTRUCTION:

- Basic Math Review
- Roman Numerals and Military Time
- Fractions
- Percentages and Decimals
- Ratios and Proportions
- General Accounting
- The Metric System
- U.S. Customary Units and the Apothecary System
- Application of Measurement and Dose Conversion
- Using Powers of Ten to Convert Measurements within The Metric System
- Introduction to Statistics
- Graphs: Tools of Organization

GENERAL INSTRUCTIONAL METHODS: Lectures, class discussions, individual and collaborative activities and/or projects.

STANDARDS AND METHODS FOR EVALUATION:

Final Exam = 30% of course grade (final exam is 100% departmental).

The remaining 70% of the course grade will be determined by the instructor.

No more than 15% of the course grade may be determined using non-proctored assessments.

GRADING SCALE:

Letter grades for the course will be awarded using the following scale:

$\geq 90\%$ - A 80-89% - B 70-79% - C 60-69% - D $< 60\%$ - E

Grades will not be curved, skewed, or otherwise inflated.