

SYLLABUS

MATH 14002 – Basic Mathematical Concepts II

(4 Credit Hours)

Catalog Information: Basic concepts of probability, statistics and geometry. Prerequisite: MATH 14001 or MATH 10771 with a minimum grade of C (2.0).

Text: Mathematics for Elementary Teachers – A Contemporary Approach, Musser, Burger & Peterson, 10th Edition, Wiley & Sons. This course covers chapters 10-16 of this text.

Statistics (4 days)

- Types of graphs used to display data
- Measures of central tendency
- Measures of variation
- Normal distribution and z-scores

Probability (7 days)

Plane geometry (10 days)

- Van Hiele levels of geometric reasoning
- Symmetry
- Plane figures

Solid geometry (9 days)

Euclidean constructions (8 days)

Coordinate geometry (8 days)

Transformational geometry (5 days)

Review for Tests: 4 days

Tests: 4 days

Review for Final Exam: 1 day