

Math 105 - Concepts and Structures of Elementary Mathematics I

1. Course Description

| This course covers set theory, problem solving, systems of numeration, elementary number theory, numerical operations, and arithmetic algorithms. It emphasizes cognitive learning and the development of problem solving strategies and techniques. Students work collaboratively in groups and/or independently using manipulatives and models to explore structures and formulate concepts. UC CREDIT LIMITATION: Credit for MATH 105 or MATH 106.

2. Topics Covered

| This course is designed to reinforce mathematical concepts for those wanting to teach grades K-8. There is an emphasis on numeric concepts; sets, logic, counting numbers, integers, rational numbers, real numbers, and some number theory. The goal of many of

| Geometry Knowledge