MATH 1410

1. Apply Polya’s four steps to problem solving.

2. Work with elementary logic using conditionals and quantifiers.

3. Work problems using sets and set notation.

4. Solve problems using relations and Cartesian products.

5. Work with patterns of numeration both with base ten and other bases.

6. Work the mathematical operations over the set of whole numbers utilizing computations in several bases.

7. Work with elementary number theory including divisibility tests, primes, composites, and factorization.

8. Find the greatest common factor and least common multiple.

9. Perform basic mathematical operations utilizing the sets of whole numbers, integers, rational numbers (in fractional and decimal form), and irrational numbers.

10. Work with modular arithmetic.

11. Solve problems using ratios and proportions.

12. Use rules for approximate numbers and scientific notation.