GRANDE PRAIRIE REGIONAL COLLEGE MATHEMATICS 1600 FALL 2007—COURSE OUTLINE

Title: Higher Arithmetic

Schedule: Lecture A2 M 1:00 pm - 2:20 pm J 226

F 11:30 am - 12:50 pm J 226

Seminar AS1 R 10:00 am - 10:50 am J 201

Instructor: Tom McLeister

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Textbook: Mathematics For Elementary Teachers, 7th edition, Musser, Burger and Peterson

Wiley

Grading: Seminar Assignments 15%

Quizzes 20% Mid-term 25% Final Exam 40%

Quizzes will be held weekly at the beginning of the Monday Lecture period, and seminar assignments will be written weekly during the seminar period.

The mid-term will be held during class on Monday, October 22 (tentative).

The final exam will be held as per Registrar's Schedule to be published in December 2007.

The use of calculators is not permitted in this course.

Course Description

MA 1600 3(3-1-0) UT 60 Hours

Pre-requisite: Pure Math 30

Transfers:

Athabasca University MATH 2xx(3)

Concordia University College of Alberta MAT 1xx(3) University of Alberta MATH 160(3) or AUMAT 107(3)

University of Calgary Jr. MATH (3)

Content: Selected topics in chapters 2 to 11 and Topic 2 of the textbook

- Ch 2 Sets, whole numbers, numeration, relations and functions
- Ch 3 Whole numbers—operations and properties
- Ch 4 Whole number computations—algorithms in base ten and others
- Ch 5 Number theory—primes, composites, tests for divisibility, gcf, lcm
- Ch 6 Fractions
- Ch 7 Decimals, ratio, proportion, and percent
- Ch 8 Integers
- Ch 9 Rational numbers, real numbers, and algebra
- **Ch 10 Statistics**
- Ch 11 Probability

Topic 2 Clock Arithmetic (possibly with supplementary material)