

**GRANDE PRAIRIE REGIONAL COLLEGE
MATHEMATICS 1600 WINTER 2008—COURSE OUTLINE**

Title: Higher Arithmetic

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|-----------------------------|--------------|----------------------------------|
| Schedule: Lecture A3 | M | 1:00 pm – 2:20 pm J 226 |
| | F | 11:30 am – 12:50 pm J 226 |
| Seminars AS1 | T | 11:30 am – 12:20 pm J 229 |
| | AS2 R | 11:30 am – 12:20 pm J 226 |

Instructor: Tom McLeister
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Textbook: Mathematics For Elementary Teachers, 7th edition, Musser, Burger and Peterson
Wiley

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| 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 Friday, February 15 (tentative).

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)