GPRC

DEPARTMENT OF SCIENCE

COURSE OUTLINE – FALL 2010

MA 1600 A2 – HIGHER ARITHMETIC

INSTRUCTOR: Brian Redmond   **PHONE:** (780) 539-2093
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**OFFICE
HOURS:** M W 10:00-11:30

PREREQUISITE: Pure Mathematics 30

REQUIRED TEXT:

Musser, Burger, Peterson: Mathematics for Elementary Teachers, 8E
Wiley 2008

CALENDAR DESCRIPTION:

Elementary Number Theory, Numeration Systems, Number Systems and
Elementary Probability Theory are included in this course.

CREDIT/CONTACT HOURS: 3 (3-1-0) UT

SCHEDULE: (Sept 2 to Dec 18)

Lecture:	M	13:00-14:20	J202
Lecture:	F	11:30-12:50	J202
Seminar:	T R	12:00-12:50	J202

TRANSFERABILITY: Consult Alberta Transfer Guide

GRADING CRITERIA:

Quizzes*:	15%	
Assignments**:	10%	
Mid-term Exam*:	25%	(Oct 22, in class)
Final Exam*:	50%	(Dec 9-18)

*Use of calculators is **not** permitted on quizzes or exams

Late assignments will **not be accepted

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 47-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE CONTENT:

Chapters 1-11: Introduction to Problem Solving; Sets, Whole Numbers, and Numeration; Whole Numbers: Operations and Properties; Whole Number Computation: Mental, Electronic, and Written; Number Theory; Fractions; Decimals, Ratio, Proportion, and Percent; Integers; Rational Numbers, Real Numbers, and Algebra; Statistics; Probability

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week	Sections	Important Dates
1	Introduction	
2	1.1, 1.2	
3	2.1, 2.2, 2.3, 2.4	Quiz 1 (Sept 14/16)
4	3.1, 3.2, 3.3	Assign 1 (due Sept 24)
5	4.1, 4.2, 4.3	Quiz 2 (Sept 28/30)
6	5.1, 5.2	Assign 2 (due Oct 8)
7	6.1	Quiz 3 (Oct 12/14)
8	6.2, 6.3	Midterm (Oct 22)
9	7.1, 7.2, 7.3	Assign 3 (due Oct 29)
10 Nov 5, last day to drop	7.4, 8.1	Quiz 4 (Nov 2/4)
11	8.2	
12	9.1, 9.2, 9.3	Assign 4 (due Nov 19)
13	10.1, 10.2, 10.3	Quiz 5 (Nov 23/25)
14	11.1, 11.2, 11.3, 11.4	Assign 5 (due Dec 3)
15	Review	