

DEPARTMENT OF SCIENCE

COURSE OUTLINE – MA1600 HIGHER ARITHMETIC WINTER 2013

INSTRUCTOR: Dallas Sawtell PHONE: 539-2989

OFFICE: C204 **E-MAIL:** dsawtell@gprc.ab.ca

OFFICE HOURS: TBA

PREREQUISITE(S)/COREQUISITE: Pure math 30

REQUIRED TEXTS: Mathematics for Elementary Teachers-A Contemporary Approach by Musser,

Burger and Peterson

CALENDAR DESCRIPTION: Elementary Number Theory, Numeration Systems, Number Systems and

Elementary Probability

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

DELIVERY MODE(S): Lecture: A3 M 1:00-2:30 and F 11:30-1:00 J226

Seminar: AS1 T and AS2 R 11:30-12:30 J226

COURSE SCHEDULE:

Ch 1 Problem Solving Process and Strategies

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

TRANSFERABILITY: See www.gprc.ab.ca and www.acat.gov.ab.ca

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions and may not meet the prerequisite requirements for other math courses. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
\textbf{A}^{+}	4.0	95 – 100	EXCELLENT
Α	4.0	90 – 94	
A ⁻	3.7	85 – 89	FIRST CLASS STANDING
B ⁺	3.3	80 – 84	
В	3.0	75 – 79	GOOD
В_	2.7	70 – 74	
C ⁺	2.3	66 – 69	SATISFACTORY
С	2.0	62 – 65	
c⁻	1.7	58 – 61	
D ⁺	1.3	55 – 57	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS: Worksheets 15%

Quizzes 20% Every Monday, starting Jan. 21

Midterm Exam 26% Monday, March 4

Final Exam 39% April 18-29 inclusive including Saturdays and evenings

STUDENT RESPONSIBILITIES: Students are responsible for all lecture material, seminars and readings. Students are expected to practice the material by doing problems from the textbook. No late worksheets will be accepted. Quizzes cannot be made up if missed. If the midterm is missed due to illness the weight will be put on the final (ie. the final will be worth 65%). If the final is missed due to illness it will be deferred (see calendar for information). A doctor's note and a phone message or email will be required in both cases. Calculators are not allowed on quizzes or exams.

STATEMENT ON PLAGIARISM AND CHEATING:Refer to the Student Conduct section of the College Admission Guide at http://www.gprc.ab.ca/programs/calendar/ or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

^{**}Note: all Academic and Administrative policies are available on the same page.