



## DEPARTMENT OF SCIENCE

### COURSE OUTLINE – MA1600 HIGHER ARITHMETIC FALL 2014

**INSTRUCTOR:** Dallas Sawtell                      **PHONE:** 539-2989  
**OFFICE:** C204    **E-MAIL:** dsawtell@gprc.ab.ca

**OFFICE HOURS:** Mondays 12:00-1:00 and any other time I'm in my office

**PREREQUISITE(S):** MA30-1 or MA30-2 or equivalent

**REQUIRED TEXTS:** e-book - Mathematics for Elementary Teachers-A Contemporary Approach by Musser chapters 1-9, Burger and Peterson available at:  
<http://ca.wiley.com/WileyCDA/Section/id-822667.html> \$74.50

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

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

<b>DELIVERY MODE(S):</b> Lecture:	A3	M 1:00-2:20	and F 11:30-12:50	J226
Seminar:	AS1	T	11:30-12:20	J226
Seminar:	AS2	F	8:30-9:20	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

**TRANSFERABILITY:** See [www.gprc.ab.ca](http://www.gprc.ab.ca) and [www.acat.gov.ab.ca](http://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
A <sup>+</sup>	4.0	95 – 100	EXCELLENT
A	4.0	90 – 94	
A <sup>-</sup>	3.7	85 – 89	FIRST CLASS STANDING
B <sup>+</sup>	3.3	80 – 84	
B	3.0	75 – 79	GOOD
B <sup>-</sup>	2.7	70 – 74	
C <sup>+</sup>	2.3	66 – 69	SATISFACTORY
C	2.0	62 – 65	
C <sup>-</sup>	1.7	58 – 61	
D <sup>+</sup>	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

<b>EVALUATIONS:</b> Worksheets	15%
Quizzes	20% Every Monday, starting Sept. 15
Midterm Exam	26% Monday, Oct. 20
Final Exam	39% Dec. 10-19 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. Cellphone use is not permitted in the classroom. This includes texting. Please turn off and put your cellphone away during class time. You may be asked to leave the classroom if using a cell phone.

**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/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

\*\*Note: all Academic and Administrative policies are available on the same page.