SAULT COLLEGE OF APPLIED ARTS S TECHNOLOGY

SAULT STE. HARIEf ONTARIO

CQUSSE QUILIfolE

Course Title?   HATHEMATICS

Code No**t*   MTH 126-4

ProdrBRi*J*   FORESTRY AND GEOLOGY TECHNICIANS

Semester*I*   TWO

Dstel   JUNEf 1984

Author;   K* PELEW

                              New: Revision: ….

APPROMEDt
        Chairperson   D3te

MATHEMATICS   HTH 126-4

Course Name   Course Number

EBEEEQUISIIEJ   MTH 113-4

EBILDSDEHY/GD^LSJ

When the student has successfully completed this c:ourse he will *hB\fe* deriorr
strated an acceptable ability to pass tests based upon the course conti?nts
as listed elsewhere*   If? *Bfter-* c(jmp l etin^ the course? the student takes
further coi..iT'ses (or^ employment) in w^iic^i he is required to apply thi%
material he should then? throusSh practice? be able to develop e sood
command of this sub .J e c t matter*

METHOD QE ASSESSMENT iG&ADIfclG METUQDi:

The students will be assessed by tests*   These tests will include periodic
tests based upon blocks of subject matter and may ? at the ins true tor •" s dis-
cretion include unannounced surprise tests on current work and/or fin^l
test on the whole course*   A letter ^rade will be based upon *a* student's
weighted avera:Se of his test results*   See also the mathematics depart-
iTierit ^ s annual publication "To the Mathematics Studertt" whic*^i is p reserii *v.'a*
to the students early in each academic yejsr*

IEXIEOOK:

"Essentials of Mathematics"? Fourth Edition? (Person)

QEJECIIUES:

The basic objective is for the student to develop an understanding of the
methods studied? knowledsse of the facts presented and an ability to use
these in the solution of problems*   For this purpose exercises are
assigned.   Tests will reflect the sort of work contained in the assis^n-
ments*   The level of competency demanded is the level reaui *re6* to obtain ar
overal l passing average on the tests*   The material to be? covered is 1 isti-*i*..
on the followin£i pa^es*

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCE

EractioDal Eotuatiaos *and* Eojcfaulaa
Eoustions with fractions
Liter3l etsuBtions *snti* formulae
Word FToblems

PBVS oɪ ᵀ
Ch. 3.3

Sfjsteias^ of Linear EQuatioos
Algebraic methods of soluti.on
SysteiTis of two or more unknowns
Word problems
Determinants (optional)

Per *son*
Ch* 14

Braebsj. Braebical SoluiioDSjE. Straidbt
Lioes
Rectangular co-ordinate system
GvBf^Y) of a linear eauation
Graphical solution of two simultaneous
  eauations
Slope of a line (optional)
Graphs of other functions (optional)

r' *erson*
Ch. *15*

Ratio *Bad* Ei^OEortioD
Ratio
Proportion
Variation-direct? inverse? Joint
  solutj.ons of variational Probl emii

PersQii
Ch* 23

Reyieu of Basic lEi^Qnometiy
Plane figures? angles? triangles
Risiht triansiles? definition of tri£5
Ratios
Solving ri^ht triani^les
APPIications

Ferso*n*
C h * 36? *3B*

QfaliQue Irian^les
Sine Law
CosirieLaw

F" er'son
Ch* 44

E^Eoneats *and* Radicals
Power and roots
Laws of exponents *(zerof* negative?
  fractional)
Scientific notation (emphasise for
  Forestry)
Souare roots
Roots and radicals (simplifying)
Operations on radicals (omit for
  Forestr̵y)

F" ers0n
Ch» 16? 17

TOPIC NO*	PERIODS	TOPIC DESCRIPTION	REFERENCE
8	12	QuadraiicEGuaiiQDs	*FisvBDn*
		Incomplete <pure) Quadratics	Ch* 18? 21
		Solutions of the jaeneral Quadratic by factoring and the Quadratic formula	
		oni w •	
		Applications - word problems	
		Graphical methods	
		Radical equations (optional)	
		Extraneous roots (optional)	
		Imasiinary number (optional)	
9	8	Lo^aEithffis IEDI: Geology QDIHI	Person
		The meanini3 and notation of logarithms	Ch* 33~3'5
		Use of table-interpolation	
		Computation by logarithms (products? Quotients? powers and roots)	
		Logarithmic *and* exponential esuation	
		(ii hi a n ^ e of base	
		Natural l o d £ j r i t h m s ~ C MJ n v e T ^ s i o n formula	