SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: Mathematics

CODENO: MTH 129-2   **SEMESTER:** One

PROGRAM: Chef Training

AUTHOR: John McGauley

DATE: August 1997   **PREVIOUS OUTLINE DATED:** August 1996

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TOTAL CREDITS:

PREREQUISITES: None

SUBSTITUTE(S): MTH 104, MTH 117, MTH 111, MTH 120, MTH 142

LENGTH OF COURSE: **TOTAL CREDIT HOURS:** 32

I. COURSE DESCRIPTION:

The course will increase the studenfs accuracy and skill in performing the
anthmetic caiculations that will be encountered in this profession. Emphasis will be
placed on practical problem solving.

II. STUDENT PERFORMANCE OBJECTIVES:

The basic objectives are that the student develop an understanding of the methods
studied, demonstrate a knowiedge of the facts presented and show an ablllty to
use these In the solution of problems. To accomplish these objectives, exercises
are assigned. Test questions wili be of near equal difficulty to questlons assigned
In the exercises. The level of competency demanded is the level required to obtain
an overall passing average on the tests. The material to be covered is listed
below.

TOPICS TO BE COVERED:	Approximate Time Frame
1. Whole Numbers, Fractlons, and Decimals	10 hours
2. Percents - Conversion to and from Fractlons and Applications	5 hours
3. Interest Caiculations	5 hours
4. Metric Conversion	5 hours
5. Graphs and Tables	5 hours

IV, LEARNING ACTIVITIES:

TOPIC NUMBER	TOPIC DESCRIPTION	REFERENCE CHAPTER ASSIGNMENTS
1.0	WHOLE NUMBERS, DECIMALS AND FRACTIONS	Text: Questions
1.1	Reading and *wriiing* large numbers Race value	pages 1-37
1.2	Rounding off numbers	
1.3	Adding and subtractlnq fractions	pages 82-98
1.4	Multiply and divide fractions and mixed fractions	
1.5	Decimat fractions	
1.6	Operations with decimals	
2.0	PERCENTS	
2.1	Percent to decimal	pages 98-128
2.2	Decimal to percent	
2.3	Ratios and proportions	
2.4	Application	pages 271-300
3.0	INTEREST CALCULATIONS	
3.1	Compiling simple interest	pages 301-319 and pages 326-337
3.2	Use of interest tables	
3.3	Compiling exact interest	
3.4	Computing compound interest	pages 339-351 and pages 355-363
4.0	METRIC CONVERSIONS	Handout
4.1	Changing metric to metric units	
4.2	Changing metric to English units	
4.3	Application of metric and English conversions	
5.0	GRAPHS AND TABLES	
5.1	Reading and constructing graphs: bar graph, line graph and pie chart	pages 129-166
5.2	Statistics	

V.   REQUIRED RESOURCES / TEXTS / MATERIALS:

1.   Text: Brief Edition Business Math, Fourth Edition, (1996), Cleaves and Hobbs, Prentice Hall.

2.   Calculator: (Recommended) SHARP Scientific CalculatorEL-531G. Theuse of some kinds of calculators may be restricted during tests.

VI. EVALUATION PROCESS/GRADING SYSTEM:

MAJOR ASSIGNMENTS AND TESTS
While reguiar tests witl normally be scheduled and announced beforehand, there may be an unannounced test on current work at any time. Such tests, at the discretion of the instructor, may be used for up to 30% of the overall mark.

At the discretion of the instructor, there may be a mid-term exam and there may be a final exam, each of which can contribute up to 30% of the overall mark.

The instructor will provide you with a list of test dates. Tests may be scheduled out of regutar dass time.

ATTENDANCE
It is your responsibility to attend all classes during the semester. Research indicates there is a high correlation between attendance and student success.

If you are absent from dass, it is your responsibility to find out from your instructor what work was covered and assigned and to complete this work before the next dass. Your absence indicates your acceptance of this responsibility.

Unexcused absence from a test may result in a mark of zero ("0"). Absence may be excused on compassionate grounds such as verified illness or bereavement. On retum from an excused absence, you should ask your instructor to Schedule the writing of a make-up test. Failure to do so will be considered as an unexcused absence.

VI, EVALUATION PROCESS/GRADING SYSTEM (Continued):

METHOD OF ASSESSMENT (GRADING METHOD)

A+	Consistently outstanding	(90% -100%)
A	Outstanding Achievement	(80% - 89%)
B	Consistently above average achievement	(70% - 79%)
C	Satisfactory or acceptable achievement in all areas subject to assessment	(55% - 69%)
X or R	A temporary grade, limited to situations With extenuating circumstances, giving a student additional time to complete course requirements **(See below)**	(45% - 54%)
R	Repeat - The student has not achieved the objectives of the course, and the course must be repeated	(0% - 44%)
CR	Credit exemption	

The method of calculating your weighted average will be defined by your instnjctor. Since grades are based upon averages, itfollows that good marks in some tests can compensate for a falling mark in another test.

Make-Up Test (if appiicable)

An "X" grade may be assigned at the end of the regular semester if you have met **_ALL_** of the following criteria:

• an overall average between 45% and 54% was achieved
• at least 50% of the tests were passed
• at least 80% of the scheduled classes were attended
• all of the topic tests were written

If you are assigned an "X" grade, you may convert it to a "C" grade by writing a make-up test on topics agreed to by the instmctor. This test will be avaitable at the time agreed to by your instnjctor.

At the end of the regular term, it Is your responsibility to obtain your results from your instnjctor and, in the event of an "X" grade, to inqulre when the make-up test will be available.

The score you receive on this make-up test will replace your original test score and be used to re-calculate your weighted average. If the re-calculated average is 55% or greater, a "C grade will be assigned. If the re-calculated average is 54% or less, an "R" grade will be assigned.

VI. EVALUATION PROCESS/GRADING SYSTEM (Continued):

"R" and "X" Grades at the end of the Semester

jf an "X" grade Is not cleared by the specified date, It will become an "R" grade. Except for extenuating circumstances, an "X" grade In Math will not be canied Into the next semester.

"R" Grades during the Semester

A student wlth a falling grade and poor attendance (less than 80% attendance) may be given an "R" at any time during the semester.

VIL SPECIAL NOTES:

Speclal Needs

If you are a student with speclal needs (e.g. physical Jimitations, vIsual Impairments, hearing impairments, leamlng disabilltles), you are encouraged to discuss required accommodatlons wlth the Instructor and/or contact the Speclal Needs Office, Room E1204, Ext. 493. 717, 491 so that support services can be arranged for you.

Advanced Standing

Students who have completed an equivalent post-secondary course must bring relevant documents to the Coordlnator, Mathematics Department.

Retentlon of Course Outlines

It Is the responsibillty of the student to retaln all course outlines for possible future use in galning advanced standing at other post-secondary institutlons.

Substltute course information is avallable at the Reglstrar's offlce.

The instructor reserves the right to alter the course as he/she deems necessary to meet the needs of the students.

VIII. PRIOR LEARNING ASSESSMENT:

There Is a MTH 129 Challenge exam in place.

Students who wish to apply for advanced credit In the course should consult the Instructor or the Prior Leamlng Assessment Office (E2203).