

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: SCIENCE FOR HAIRDRESSING

Code No.: CHm HDR

Program: HAIRDRESSING

Semester: _____

Date: AUGUST, 1986

Author: D. HEGGART

New: X Revision: _____

APPROVED: 
Chairperson

Aug 7/86
Date

CALENDAR DESCRIPTION

SCIENCE FOR HAIRDRESSING

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

This course introduces the Hairdressing student to basic science concepts that have application to his/her profession. Basic and applied chemistry related to hair and its preparation are studied. Basic electricity as used in Hairdressing salons is reviewed along with safety precautions. Heat and light as they affect heating and the mood of humans are covered.

EVALUATION:

Evaluation is based on **three** term tests each of which have equal value and are held approximately at the end of the 6th, 10th, and 16th week.

TEXTBOOK(S):

Textbook is prescribed by the Hairdressing program.

HAIRDRESSING SCIENCE

COURSE OBJECTIVES

TOPIC NO.	PERIODS	DESCRIPTION
1	8	<p><u>BASIC CHEMISTRY:</u></p> <ul style="list-style-type: none">- introduction to the structure of the atom, molecules and compounds- symbols and the periodic table- chemical formula of common compounds used in a salon- chemical bonds with illustrations and examples as found in hair- chemical vs. physical change- solutions and method of expressing concentration- acids and bases- concept of pH- simple organic compounds- the difference between organic and inorganic compounds
2	8	<p><u>CHEMISTRY OF HAIRDRESSING:</u></p> <ul style="list-style-type: none">- amino acids, peptides and protein- peptide bonds- disulfide cross-linkage- hydrogen bonds- chemical straightening - throglycolate- depilatories- chemical waving- neutralizers, oxidizers- acid rinses, colour rinses, conditioners
3	8	<p><u>BASIC ELECTRICITY:</u></p> <ul style="list-style-type: none">- simple circuits, components of a circuit- conductors or insulators- alternating and direct current- electrical sources- measuring electricity - voltage, current, resistance, power- energy

HAIRDRESSING SCIENCE

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TOPIC NO.	PERIODS	DESCRIPTION
		<ul style="list-style-type: none">- overloading of a current- function of a fuse and/or current breaker- parallel and series currents- diathermy treatment- electrical shock- how to work with electrical appliances in a safe manner
4	6	<p><u>HEAT AND LIGHT</u></p> <ul style="list-style-type: none">- how heat moves - conduction, convection, radiation- electromagnetic spectrum, visible UV, IR- physical effect of light- psychological effect of light- devices that produce light
