SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: ____ARCHITECTURAL DESIGN_____

Code No.: ____ARC 300-8_____

Program: ____ARCHITECTURAL TECHNOLOGY_____

Semester: ____FIVE_____

Date: ____JUNE, 1984_____

Author: ____MEL URSELL_____

New: ___X___ Revision: _____

APPROVED: _____ _____
Chairperson   Date

ARCHITECTURAL DESIGN	ARC 300-8
Course Name	Course Number

PHILOSOPHY/GOALS:

To research and develop a feasibility study.

To learn the advanced elements of the design phase.

To construct a set of working drawings utilizing the systems approach.

To learn to work independently with the minimum of supervision.

METHOD OF ASSESSMENT:

SEE ATTACHED SHEET.

TEXTBOOK(S):

A Graphic Vocabulary for Architectural Presentation
        by Edward T. White (Architectural Media Ltd.)

Architecture Form, Space & Order
        by Francis D.K. Ching (Van Nostrand Reinhold)

REFERENCE TEXTS:

Building Construction Handbook
        by Merritt (McGraw-Hill)

Manual on Metric Building Drawing Practices
        by National Research Council

Architectural & Building Trades Dictionary
        by Burke Dalsell Townshed (General)

Masonry Simplified
        by Dalsell Townshed (General)

REFERENCE TEXTS - Continued

Modular Co-ordination
        by R.S. Kent - National Research Council

Architectural Graphics
        by Martin (Macmillan)

Architectural Rendering
        by Halse (McGraw-Hill)

Canadian Wood Council Publications

Student Manual Technical Notes and Details in S.I.

Legal Aspects of Architectural Practice O.A.A.

G.M.S. Master Construction Specifications
        Canadian Government

The Ontario Building Code

Architectural Graphic Standards

Essentials of Soil Mechanics & Foundations
        by David F. McCarthy (Reston)

Concrete Detailing (A.C.I.)

METHOD OF ASSESSMENT:

The following grades will be assigned:

        A - 75-100%   consistently above average achievement
        B - 66- 74%   average achievement
        C - 55- 65%   satisfactory achievement
        I - incomplete
        R - repeat   the student has failed to achieve the
                         objectives of the course and must repeat
                         the course

The "I" grade (incomplete) designation indicates that the student has not
completed the objectives required in specific course areas.

Semester work will be made up of tests and assignments. All tests and
assignments must be completed when assigned. Late assignments or projects
will not be tolerated.

Attendance is also mandatory in all classes.

Tests and assignments will be given on a regular basis throughout the
semester. The weighted grade between practical theoretical work will depend
on the type of course. Final examinations are also mandatory for any
student that does not maintain an "A" average in the course or who has not
completed all assignments by their due date.

NOTE: Chronic absenteeism by any student will result in the student not
        being permitted to class and ultimately his failure to receive an
        acceptable grade in the course.

TOPIC NO.	PERIODS	TOPIC DESCRIPTION

1   <u>The Feasibility Study</u>

- research
- philosophy and facts
- information gathering
- analysis, evaluation and organization
  of facts
- designing from the program
- program and design evaluation
- the programming paradigm

2   <u>The Design Phase</u>

- introduction
- ordering concepts
- function
- space
- context
- enclosure
- synthesis
- form

3   <u>Working Drawing Production</u>
        (A Systems Approach)

- what is a systems approach to working
  drawing production
- how time is lost in a Drafting Department
- drafting uniformity
- organizing the systems approach
- accuracy
- flexibility
- cost
- the drafting manual
- data storage
- cut and paste
- photo drafting
- future drafting techniques such as CAD
- overlay drafting