



A: Division

Instructional

Date

Aug 4, 1997

Revision of Course

X

Dated

March 12, 1992

Course number

Descriptive title

Credits

Course Description

Summary of Revisions

This course introduces the theory and practice of digital circuits

N: Textbook and Materials to be Purchased by Students

McGraw-Hill

- Malvino, Brown, *Digital Computer Electronics*, Macmillan/McGraw-Hill
- Portfolio for logic design assignments
- Two 3 1/2" high density diskettes

O: Course Objectives

The student should be able to:

- demonstrate an understanding of the logic blocks composing a microprocessor
 - appreciate, via comparisons, the architecture of microprocessors
 - demonstrate the design and final logic circuit of a microprocessor

Course Content

1 Data representation

1.1 Number systems

1.1.1 Decimal, binary, octal, hexadecimal

1.1.2

1.2 Character representation

one and two's complement arithmetic
er representation

Some topics such as VHDL and FPGAs may be introduced

2 Gates and combinational circuits

Method of Instruction

Of Methods

are three components to the course: lectures, labs., and assignments.

There a

e new material: usually via a sequence of theoretical concepts, examples

The lecture is used to introduc

Summary of Revisions

of reasons for changing the course number:
ged the number of the corresponding course because the
new version of the course has changed.

