COURSE OUTLINE
Course Title: MATHEMATICS
Code No,: ..... MTH 426
Program: COMPUTER ELECTRICAL \& ELECTRONICS TECHNOLOGY
Semester: ..... TWO
Date: ..... JUNE, 1984
Author: K.G. CLARKE
New:
Revision
APPROVED

## CALENDAR DESCRIPTION

MATHEMATICS
Course Name

MTH 426
Course Number

## PHILOSOPHY/GOALS:

When the student has successfully completed this course he will have demonstrated an acceptable ability to pass tests based upon the course contents as listed elsewhere. If, after completing the course, the student takes further courses (or employment) in which he is required to apply this material he should then, through practice, be able to develop a good command of this subject matter.

METHOD OF ASSESSMENT (GRADING METHOD):
The students will be assessed by tests. These tests will include periodic tests based upon blocks of subject matter and may, at the instructor's discretion include unannounced surprise tests on current work and/or a final test on the whole course. A letter grade will be based upon a student's weighted average of his test results. See also the mathematics department's annual publication "To The Mathematics Student'* which is presented to the students early in each academic year.

TEXTBOOK (S):
Washington - "Basic Technical Mathematics with Calculus"

OBJECTIVES:
The basic objective is for the student to develop an understanding of the methods studied, knowledge 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 assignments. 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 on the following pages.

NOTE:
The parallel mechanical technology mathematics course differs from this course in that the mechanical students omit "Number Systems and Boolean Algebra" at the start of the term and take "Analytic Geometry" at the end of the term. Hence, the two courses are out of step throughout the term.

ENTRY TO COURSES:
Prerequisite: MTH 413 or credit in MTH 413.
A student who has taken MTH 120 instead of MTH 413 may be admitted to MTH 426 if certain conditions are met:

1. The student has earned an "A" or "B" in MTH 120;
2. The student is entering a technology program.

## AUDITING:

Computer, electrical, and electronics students who are taking the "Logic and Switching" course but who are not registered in MTH 426 will be permitted to audit the topic "Number Systems and Boolean Algebra".

ENTRY TO SUCCEEDING COURSES:
A student who successfully completes MTH 426 is admitted to the succeeding math course- If a student transfers to a related technician program his grade in MTH 426 will be accepted in lieu of the second semester technician math course (MTH 220).

A student who fails second semester technology math (MTH 426) and transfers to a related technician program may be granted a "C" in second semester technician math (MTH 220) and entry to third semester technician mathematics if he meets certain requirements:

1. Good attendance ( $80 \%$ or better);

2- MTH 426 average is $40 \%$ or better;
3. $50 \%$ or better in each algebra related topic in MTH 426 except "Progressions and Binomial Theorem";
4. Every test in MTH 426 has been written.



