207	**Mechanical Technology III**	April 18, 2001	
Course No.	Descriptive Title	Revision: 2	February, 2003

Course Description

This course deals with the problems encountered in the construction of large or multi-storeyed buildings of a complex nature or where specialized typed of mechanical systems are called for. Included is a minor study of systems found in hospitals.

Suggested Prerequisites:	102	Mechanical Technology I
. . . . .	104	Plumbing & Fire Protection Design
. . . . .	109	Heating, Ventilation and Air Conditioning Design

Learning Outcomes

The student will be able to demonstrate an understanding of:

1. the components of complex mechanical systems including plumbing, heating, ventilation, air conditioning and fire protection
2. the fundamentals of specialized piping systems
3. the relationship of the various components.

Course Content:

The student will study the following:

1. from the text Mechanical and Electrical Systems for Buildings
   a. Chapter 6 Systems and Equipment for Heating and Cooling
   b. Chapter 10 Water and Waste
   c. Chapter 11 Bathroom Design
   d. Chapter 13 Fire Protection
2. from the text Means Plumbing Estimating
   b. Chapter 2 Plumbing Subsystems and Components.

Required Textbooks and Materials:

1. Mechanical and Electrical Systems for Buildings, by Stein/Reynolds/McGuinness
2. Means Plumbing Estimating, by Moylan/Mossman.

Testing:

Emphasis in testing will be based on the student's ability to explain and apply the materials studied.