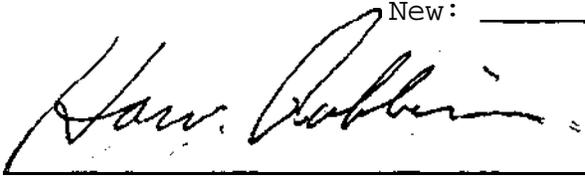


SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: APPLIED MICROBIOLOGY
Code No. WTR 325-4
Program: PULP & PAPER AND WATER RESOURCES ENGINEERING TECHNOLOGY
Semester; V
Date DECEMBER, 1986
Author: JOHN K. THEIL

APPROVED:  _____ New: _____ Revision: X (3)
Chairperson Date

OBJECTIVES:

The student will be able to:

1. Determine the basic requirements and procedures for microscopic observations of microorganisms.
2. Prepare and examine microscopically hanging drop and temporary wet mount specimens.
3. Recognize the significance of size differences and shapes of bacteria.
4. Carry out staining procedures.
5. Prepare agar and broth media.
6. Perform sterilization and media inoculation
7. Perform the plate-count and membrane filtration techniques.
8. Isolate individual bacteria cultures by streak plate separation.
9. Identify microorganisms of importance in water quality and wastewater treatment applications.

COURSE OUTLINE...CONTINUED

<u>UNIT</u>	<u>TOPIC</u>	<u>HOURS</u>
12	Principles of Epidemiology	3
		IT"
	Laboratory Experiments	18
	Interim Tests	6
	Review	2