MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT.	. MDLT	COURSE NUMBER: 1105
NUME	BER OF CREDITS: 3	Lecture: 1 Lab: 2 OJT: 0
	se Title:	
Medica	al Microbiology I	
Catal	og Description:	
covers and the microb the stud	iology within an epidemiologic, diagnostic,	for identification of pathogenic organisms occesses in humans. The course will present and clinical framework. In the laboratory, ning, microscopy, culturing, identification of
Droro	quisites or Necessary Entry Skills/K	nowladge.
None	quisites of Necessary Entry Skins/E	Mowleage:
NOIL		
application Goal 2 Goal 3 Goal 4 Goal 4 Goal 6 Goal 6 Goal 6 Goal 6 Goal 6 Goal 6	1: Communication: By meeting the following: Critical Thinking: By meeting the following: Natural Sciences: By meeting the following: Mathematics/Logical Reasoning: By meeting the following: By meeting: By By meeting: By	ing competencies: ing competencies: ing competencies: ting the following competencies: iences: By meeting the following ing the following competencies: ing competencies: wing competencies: ting the following competencies:
Topic	es to be Covered	
Micros	1.7	
	and infection control	
	copic and colonial morphology	
	m used in microbiology nen collection, transportation, and handling	_
	rd microbiology tests and procedures	
	positive cocci of medical importance	

Gram negative cocci of medical importance		
Gram negative rods of medical importance		
Student Learning Outcomes		
Apply principles of safety, quality assurance, quality control in clinical microbiology		
Properly collect, transport, and handle specimens using safe and sterile techniques		
Describe colonial and microscopic morphology of microbes		
Identify and classify microorganisms		
Conduct the correct test to identify the bacteria based on gram stain, colonial morphology, and		
biochemical tests		
Correlate bacteria, transmission of, and diseases caused by microorganisms		
Understand antibiotic susceptibility and antibiotic resistant bacteria		
Identify microbial and immunological methodologies are used in disease treatment and		
prevention		
Select additional procedures based on preliminary results		
Discuss molecular diagnostic techniques used to identify microorganisms		
Discuss pathophysiology of microorganisms and virulent factors		
Is this course part of a transfer pathway: Yes □ No ⊠		
*If yes, please list the competencies below		

Revised Date: 3/29/2022