MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. MDLT	COURSE NUMBER: 2110
NUMBER OF CREDITS: 2	Lecture: 2 Lab: 0 OJT: 0
Course Title:	
Clinical Chemistry II	
Catalog Description:	
Clinical Chemistry II is a continuation of MDLT 112 to develop skills in the performance of the chemical correlate laboratory results with clinical findings. Co acid/base balance, electrolytes, endocrinology & thy toxicology, and hormones.	analysis of blood. Lectures continue to ontent of the course includes renal,
Prerequisites or Necessary Entry Skills/Kı	nowledge:
MDLT 1100, MDLT 1125, and CHEM 1150.	iowicuge.
FULFILLS MN TRANSFER CURRICULE applicable) Goal 1: Communication: By meeting the following Goal 2: Critical Thinking: By meeting the following Goal 3: Natural Sciences: By meeting the following Goal 4: Mathematics/Logical Reasoning: By meeting Goal 5: History and the Social and Behavioral Science competencies: Goal 6: The Humanities and Fine Arts: By meeting Goal 7: Human Diversity: By meeting the following Goal 8: Global Perspective: By meeting the following Goal 9: Ethical and Civic Responsibility: By meeting Goal 10: People and the Environment: By meeting	g competencies: ng competencies: ng competencies: ng the following competencies: ences: By meeting the following g the following competencies: ng competencies: ng competencies: ing competencies: ng the following competencies:
Topics to be Covered	
Renal	
Acid/base balance	
Electrolytes	
Endocrinology & thyroid Gastric & pancreatic function	
Toxicology	
Hormones	

Student Learning Outcomes	
Apply principles of safety, quality assurance and quality control in clinical chemistry.	
Evaluate specimen acceptability for chemical analysis.	
Compare and contrast human body chemistry levels under normal and abnormal conditions.	
Explain, perform, and evaluate clinical chemistry procedures for renal, acid-base balance,	
endocrinology, toxicology, hormones, gastric, and pancreatic testing.	
Discuss basic laboratory instrumentation and automation.	
Perform laboratory calculations as pertains to clinical chemistry.	
Discuss methodologies for chemistry determinations.	
Define terminology associated with clinical chemistry topics.	
Correlate test results with patient conditions in regards to renal, acid-base balance,	
endocrinology, toxicology, hormones, gastric, and pancreatic diseases.	
Is this course part of a transfer pathway: Yes □ No ☒	

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*If yes, please list the competencies below

Revised Date: 3/29/2022