

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. MDLT

COURSE NUMBER: 1110

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT: 0

Course Title:
Laboratory Math Calculations

Catalog Description:
Laboratory Math Calculations course begins with a review of basic math, algebra and the metric system. The student will then learn basic math as it applies to the laboratory sciences.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Basic math, fractions, percentages, proportions, ratios and fundamental algebra
Scientific notation
Temperature conversion
Metric system
Quality control calculations and interpretation

Student Learning Outcomes
Analyze, solve, and compute basic laboratory mathematics, basic algebra, and metrics.

Analyze graphs as they relate to quality control and Levey Jennings's QC rules.

Demonstrate the skill to calculate and perform dilutions in the laboratory.

Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

<small>*If yes, please list the competencies below</small>
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Revised Date: 3/29/2022