Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

**DEPT.** Medical Laboratory Technician  
**COURSE NUMBER:** MDLT 1110

**NUMBER OF CREDITS:** 2  
Lecture: 2  
Lab: ______

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**Course Title:**  
Laboratory Math Calculations

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**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.

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**FULFILLS MN TRANSFER CURRICULUM AREA(S)**  
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:

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**Prerequisites or Necessary Entry Skills/Knowledge:**  
NONE
### Topics to be Covered

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<tbody>
<tr>
<td>a</td>
<td>Basic math, fractions, percentages, proportions, ratios and fundamental algebra</td>
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<tr>
<td>b</td>
<td>Scientific notation</td>
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<tr>
<td>c</td>
<td>Temperature conversion</td>
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<tr>
<td>d</td>
<td>Metric system</td>
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<tr>
<td>e</td>
<td>Quality control calculations and interpretation</td>
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### Student Learning Outcomes

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<table>
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<tr>
<td>Analyze, solve, and compute basic laboratory mathematics, basic algebra, and metrics</td>
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<td>Analyze graphs as they relate to quality control and Levey Jenning’s QC rules</td>
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<td>Demonstrate the skill to calculate and perform dilutions in the laboratory</td>
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### Is this course part of a transfer pathway:

- Yes [ ]
- No [x]

Revised 01/2020