MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

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. ELUT     COURSE NUMBER: 1105

NUMBER OF CREDITS: 3        Lecture: 2       Lab: 1       OJT 0

Course Title:
Blueprint, Schematics and Transit

Catalog Description:
This course covers the use and interpretation of blueprints, schematic diagrams, and the symbols and abbreviations used in them. This course also covers the fundamentals for set-up, operation and use of a transit mounted on a tripod or other base.

Prerequisites or Necessary Entry Skills/Knowledge:
None

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:
### Topics to be Covered

- Blueprint and map readings, electrical drawings and symbol identifications.
- Set up and use a transit.

### Student Learning Outcomes

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<tr>
<td>1</td>
<td>Measure elevations around the school with use of transit, tripod and measuring stick.</td>
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<tr>
<td>2</td>
<td>Draw the following diagrams: one-line, elementary, highway and wireless.</td>
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<td>3</td>
<td>Prepare staking sheets: both single-phase and three-phase.</td>
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<td>4</td>
<td>Prepare electrical drawings from instructor instructions.</td>
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<td>5</td>
<td>Draw electrical power system substation plans which may include plot plan, bus plan and elevation, grounding layout and details, conduit installations details, electrical equipment layout, electrical floor plan and lighting plan.</td>
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### Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: October, 2020