MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. ELWT **COURSE NUMBER: 2110**

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

Course Title:
Turbine Siting and Construction

Catalog Description:
Turbine Siting and Construction introduces students to the various aspects of wind turbine in wind farm siting, construction, and commissioning. Students will be engaged in observation and discussions on the use of heavy equipment such as cranes, rigging, tower assembly, and a wind tower production facility being brought on-line.

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:

Prerequisites or Necessary Entry Skills/Knowledge:
None

Topics to be Covered
Identify and understand the development of a wind farm.
Siting and rigging for construction of a wind farm.
Steps to developing a wind farm.
Construction of a wind farm.
Investigate the development of documents in different stages of a wind farm completion.
Use of different rigging options.
Investigate the siting development of a wind farm.

Student Learning Outcomes
Describe the development of a wind farm
Operate the rigging training system.
Demonstrate the importance of safety at a wind farm.
Operate a wind farm simulator.
Operate a wind turbine simulator.
Investigate the construction of a wind farm.

Is this course part of a transfer pathway: Yes ☐ No ☒
***If yes, please list the competencies below**

Revised 6/2021