Course Title:
Alternative Energies

Catalog Description:
Alternative Energies introduces traditional and alternative energy sources. This class will explore the basic principles of traditional energy with an emphasis on alternative energy. Students will develop a basic understanding of solar, biofuels, wind, geothermal and hydro energy sources.

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
Gain a basic understanding of traditional energy sources.
Learn basic principles of alternative energy sources.
Have a general understanding of the use of traditional and alternative energy sources in the production of electricity.

Student Learning Outcomes
Describe advantages and limitations of different energy sources.
Explain stand-alone systems and utility interconnection.
Identify major components in the production of electricity.
Identify basic components of a solar, air, water, and electric systems.

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

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