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. RNEW_ COURSE NUMBER: 1130

NUMBER OF CREDITS: _2_____ Lecture:___2____ Lab:_____

Course Title:
Pollution Control Fundamentals

Catalog Description:
Pollution Control Fundamentals covers the fundamentals of pollution control in a process plant. Identification of the major sources of pollution, explanation of control devices used to minimize polluting emissions; the importance of reducing emissions and keeping in compliance with State and Federal regulations will be discussed. The state and federal regulatory agencies overseeing permitting and their enforcement procedures will also be covered.

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:
### Topics to be Covered (General)

<table>
<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Environmental Protection Agency (EPA)</td>
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<tr>
<td>Minnesota Pollution Control Agency (MPCA)</td>
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<tr>
<td>Environmental Assessment Worksheet (EAW)</td>
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<tr>
<td>Air Emissions Permit</td>
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<tr>
<td>National Pollutant Discharge Elimination System (NPDES)</td>
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<td>Storm Water Pollution Prevention Plan</td>
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<td>Above Ground Storage Tank Regulations</td>
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<tr>
<td>Risk Management Plan (RMP)</td>
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<tr>
<td>State Authorization Reciprocity Agreement (SARA)</td>
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### Student Learning Outcomes

- Demonstrate knowledge of the role of and the differences between the EPA and the MPCA
- Define EAW and explain its role in permitting
- Define Air Emissions Permit and explain its use
- Explain the use of an NPDES General Storm Water Discharge Permit
- Explain the Spill Prevention, Control and Countermeasures Plan
- Explain the Storm Water Pollution Prevention Plan
- Explain the Above Ground Storage Tank Regulations
- Define RMP (Risk Management Plan) and explain its uses
- Define the SARA notification forms and explain their uses

### Is this course part of a transfer pathway: Yes ☐ No ☒

*If yes, please list the competencies below

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Revised January 2021