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. GEOG________ COURSE NUMBER:____2140_____

NUMBER OF CREDITS: __3______ Lecture:__3____ Lab:____0____

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Introduction to Meteorology</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Catalog Description:</th>
</tr>
</thead>
</table>
Studies insolation, atmospheric processes, weather systems, weather maps, forecasting, and severe weather. Storm Spotter training also will be addressed. Prerequisite: STSK 0095 or placement by multiple measures. GEOG 1100 or GEOG 1101 recommended.

<table>
<thead>
<tr>
<th>FULFILLS MN TRANSFER CURRICULUM AREA(S)</th>
<th>(Leave blank if not applicable)</th>
</tr>
</thead>
</table>
Goal 10: People and the Environment: _X_ by meeting the following competencies:

2. Discern patterns and interrelationships of bio-physical and socio-cultural systems.

3. Describe the basic institutional arrangements (social, legal, political, economic, religious) that are evolving to deal with environmental and natural resource challenges.

5. Propose and assess alternative solutions to environmental problems.

6. Articulate and defend the actions they would take on various environmental issues.

<table>
<thead>
<tr>
<th>Prerequisites or Necessary Entry Skills/Knowledge:</th>
</tr>
</thead>
</table>
Prerequisite: STSK 0095 or placement by multiple measures. GEOG 1100 or GEOG 1101 recommended

<table>
<thead>
<tr>
<th>Topics to be Covered (General)</th>
</tr>
</thead>
</table>
The Atmosphere and Meteorology
Insolation
Heat and Temperature
Air Pressure and Air Masses
Student Learning Outcomes

1. Explain the role insolation plays in our atmosphere and developing weather systems.
2. Describe the processes involved in the heating and cooling of the atmosphere.
3. Explain the role of moisture in our atmosphere and how it relates to weather.
4. Compare and contrast weather-related phenomena.
5. Interpret weather maps and relate the information to the weather involved.
6. Identify how severe weather forms and common geographic patterns found globally.
7. Assess current severe weather events and the physical and human consequences.
8. Examine social, political, and economic issues in managing extreme weather events.

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

Revised 2/2020