

University of Minnesota Morris Digital Well

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Assessment of Student Learning Reports

Assessment of Student Learning Committee
(Inactive)

Spring 2017

Environmental Science Discipline 5-Year Assessment Plan 2016-2021

Environmental Science Discipline

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Academic Program: Environmental Science

Academic Division: Science and Mathematics

Program Contact:

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In the space below, list your Program Student Learning Outcomes (PSLOs):

The Environmental Science program are as follows:

1. Students will demonstrate a strong basis of knowledge about the basic natural resources of land, air, and water.
2. Students will exhibit awareness about the problems arising from the interaction of human society and natural environment .
3. Students will effectively apply skills in techniques of applied environmental science, including experiment design, collection of data and analysis of experimental results.
4. Students will demonstrate skill in oral and written presentation of scientific problems that pertain to the environment.

Enter Academic Program Name:				
Program Student Learning Outcome(s) to be assessed	How will you measure the outcome?	Where will the data be collected and by whom?	When will the data be collected?	Overlap with CSLOs?*
<p>2016-17</p> <p>PSLO 4</p>	<p>ESci4901 and ESci4902 Senior Seminar</p> <p>Sylke Boyd will collect the data.</p> <p>Skill in oral presentation will be assessed in the senior seminar presentations, using a combination of audience feedback forms and faculty discussion.</p> <p>Skill in written presentations will be assessed based on submitted abstract, faculty letter and bibliography.</p> <p>Collection throughout academic year, finished I May 2017.</p>			<p>2d, 4a, 4b, 4c, 4d</p>
<p>2017-18</p> <p>PSLO 3</p> <p>PSLO4</p>	<p>ESci 3196 Environmental Science Field Camp or Completion of an applied educational experience in environmental science.</p> <p>The ESci coordinator will administer proposal forms and final survey forms, which collect data on type of field experience, duration, interdisciplinarity, skills used, results found.</p> <p>Repeat observations in Phys4901/4902 after adjustments based on previous year.</p>			<p>3a, 4b, 4c</p> <p>2d, 4a, 4b, 4c, 4d</p>
<p>2018-19</p> <p>PSLO 1</p> <p>PSLO 2</p>	<p>Knowledge about the basic natural resources of land will be assessed using data collected from ESci majors who took Geol2161 GIS.</p> <p>Who? TBD</p> <p>EnSt1101 Environmental Problems and Policies. Assessment based on course content. Who? TBD</p>			<p>1a, 2a-g</p> <p>3a, 3d, 3e</p>

<p>2019-20</p> <p>PSLO 1</p>	<p>Knowledge about the basic natural resources of air will be assessed using data collected from ESci majors who took Phys2301 Atmospheric Physics.</p> <p>Who? Sylke Boyd</p>	<p>1a, 2a-g</p>
<p>2020-21</p> <p>PSLO 1</p>	<p>Knowledge about the basic natural resources of water will be assessed using data collected from ESci majors who took Geol3501 Hydrology.</p> <p>Who? TBD</p>	<p>1a, 2a - g</p>

*CSLOs are Campus Student Learning Outcomes. These are reprinted below for your convenience. Your PSLOs need not overlap with CSLOs, but if your PSLO does reinforce or overlap with a CSLO, please report that information.

Please report any other planned assessment for your academic program in the space below:

UMM Campus Student Learning Outcomes (CSLOs)

Approved Unanimously by the Curriculum Committee, December 10, 2009

Approved by Campus Assembly, March 3, 2010

The University of Minnesota, Morris's goal is for students to have gained, by the time of graduation:

1. Knowledge of Human Cultures and the Physical and Natural World through:

- a) Core studies in the liberal arts: arts, histories, humanities, languages, mathematics, sciences, and social sciences
- b) In-depth study in a particular field: its schools of thought, advanced theories, language, and methods of inquiry
- c) Engagement with big questions, both contemporary and enduring

2. Intellectual and Practical Skills, practiced extensively across students' college experiences, including:

- a) Inquiry and analysis
- b) Critical thinking and problem-solving
- c) Creative thinking and artistic expression
- d) Written, multi-media, and oral communication
- e) Quantitative literacy
- f) Information and technology literacy
- g) Collaboration

3. An Understanding of the Roles of Individuals in Society, through active involvement with diverse communities and challenges, including:

- a) Civic knowledge and engagement—local and global
- b) Intercultural knowledge and competence
- c) Aesthetic/artistic engagement
- d) Environmental stewardship
- e) Ethical reasoning and actions

4. Capacity for Integrative Learning, including:

- a) Synthesis and advanced accomplishment across general and specialized studies, and through coand extra-curricular activities
- b) Application of knowledge, skills, and responsibilities to new settings and progressively more complex problems
- c) Skills for sustained learning and personal development