

Academic year 2024-2025

MS in Environmental Engineering - MS-MSEV Learning Outcomes

SLO 1 **NOT MET**

Students will be able to explain and provide examples of the impact of human activities to the natural environment.

MEASURES	RESULTS	ACTIONS
Comprehensive Exam (Depth) 75% of students achieve the proficiency mentioned above Direct - Other Target Minimum acceptable is 3 out of 4	NOT MET MS_MSEV.pdf Analysis All students this SLO based on the results of the comprehensive exam.	Modify Policies / Procedures IN PROGRESS To ensure meaningful assessment, the faculty will review the current process of applying identical assessment instruments across every program during the first faculty meeting of Fall 2025. Recommended Due Date: 09/02/2025 Revise Measurement / Assessment IN PROGRESS Uniform success across the cohort may indicate that the assessment lacks sufficient granularity to distinguish between levels of mastery or to identify areas for curricular improvement. Faculty will review the current measure for appropriateness at the first Fall faculty meeting. Recommended Due Date: 09/19/2025

General Outcome Actions

ACTIONS
Revise Measurement / Assessment IN PROGRESS The faculty will review this outcome and determine what other measures to use, if any, during the first faculty meeting of Fall 2025. Recommended Due Date: 09/02/2025

Conclusion

The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.

SLO 2 **NOT MET**

Students will demonstrate an ability to design engineering components for mitigating pollutants in the environment

MEASURES	RESULTS	ACTIONS
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<p>Measure 1</p> <ol style="list-style-type: none"> 1. Questions, projects and assignments aimed at the design of engineering components in CVEN 5331 Biological Wastewater Treatment or CVEN 5329 Water Supply and Treatment. 2. All students will be evaluated 2 times in each indicator, by committee of a minimum two faculty members. Assessment instruments are the performance in projects and assignments in CVEN5331 and CVEN5329 class and comprehensive exam (breadth and depth). <p><i>Water Supply & Treatment: CVEN 5329</i></p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>Analysis</p> <p>Despite a formal request by the graduate coordinator as well as the interim chair, the instructor has not provided the required course data.</p>	<p>Other - [Deferred Assessment]</p> <p>IN PROGRESS</p> <p>The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.</p> <p>Recommended Due Date: 12/15/2025</p>
<p>Measure 2</p> <p>Comprehensive Exam.</p> <p>Direct - Other</p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>MS_MSEV.pdf</p> <p>Analysis</p> <p>The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.</p>	<p>Modify Policies / Procedures</p> <p>IN PROGRESS</p> <p>To ensure meaningful assessment, the faculty will review the current process of applying identical assessment instruments across every program during the first faculty meeting in Fall 2025.</p> <p>Recommended Due Date: 09/02/2025</p>

Conclusion

The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for

classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.

SLO 3 **NOT MET**

Students will demonstrate the ability to survey and organize peer-reviewed literature in environmental engineering for problem solving tasks

MEASURES	RESULTS	ACTIONS
<p>Measure 1</p> <p>1. Thesis defense or Comprehensive Examination</p> <p>Direct - Presentation</p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>MS_MSEV.pdf</p> <p>Analysis</p> <p>The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.</p>	<p>Modify Policies / Procedures</p> <p>IN PROGRESS</p> <p>To ensure meaningful and equitable assessment, the faculty will review the current process of applying identical assessment instruments across every program during the first faculty meeting in Fall 2025.</p> <p>Faculty will review whether this instrument is appropriate to capture the student's "ability to survey and organize peer-reviewed literature in environmental engineering for problem solving tasks" during the first faculty meeting in Fall 2025.</p> <p>Recommended Due Date: 09/02/2025</p>
<p>Measure 2</p> <p>Projects and assignments in CVEN 5329; CVEN 5331</p> <p>Direct - Other</p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>Analysis</p> <p>Despite a formal request by the graduate coordinator as well as the interim chair, the instructor has not provided the required course data.</p>	<p>Other - [Deferred Assessment]</p> <p>IN PROGRESS</p> <p>The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.</p>

		Recommended Due Date: 12/15/2025
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Conclusion

The graduate coordinator failed to i) collect indirect survey data in the spring 2025 semester, ii) collect direct data from the comprehensive exam in the spring 2025 semester, and follow the scoring rubric that maps the student performance to the quantitative likert scale 1-4 used directly for assessment in the spring 2025 semester. The graduate coordinator had several months to compile the information. The graduate coordinator was not able to successfully collaborate with faculty to collect the data, and in fact, put undue strain on adjunct faculty and other faculty with last-minute, short and unreasonable deadline data requests with confusing communication although having several months to compile the data (for classes taught in the fall 2024 semester). This is the reason that no indirect data was collected in the spring 2025, and no direct data was collected and interpreted in CVEN 5329. This dataset will be collected and reassessed in the fall 2025 semester.

SLO 4 NOT MET

Students must demonstrate the ability to complete a masters thesis successfully and effectively communicate the thesis work orally and in Writing

MEASURES	RESULTS	ACTIONS
<p>Measure 1</p> <p>1. Thesis Report</p> <p>Direct - Other</p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>Analysis</p> <p>There were no thesis students in the MS Environmental Engineering program for AY24-25; therefore, no data was collected to determine whether this outcome was met or not met.</p>	<p>Other - [Deferred Assessment]</p> <p>COMPLETE</p> <p>Assessment Status: This outcome was scheduled for assessment during the current cycle; however, no students were enrolled in the relevant program component (Thesis). As a result, no data were available for evaluation. The outcome remains part of the ongoing assessment plan and will be assessed in the next applicable cycle.</p>
<p>Measure 2</p> <p>Final Thesis Defense</p> <p>Direct - Presentation</p> <p>Target</p> <p>Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above</p>	<p>NOT MET</p> <p>Analysis</p> <p>There were no thesis students in the MS Environmental Engineering program for AY24-25; therefore, no data was collected to determine whether this outcome was met or not met.</p>	<p>Other - [Deferred Assessment]</p> <p>COMPLETE</p> <p>Assessment Status: This outcome was scheduled for assessment during the current cycle; however, no students were enrolled in the relevant course or program component. As a result, no data were available for evaluation. The outcome remains part of the ongoing assessment plan and will be assessed in the next applicable cycle.</p>