

Academic Year 2025-2026

MS in Environmental Engineering - MS-MSEV Learning Outcomes

SLO 1

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

MEASURES	RESULTS	ACTIONS
Comprehensive Exam and thesis defense 75% of students achieve the proficiency mentioned above Direct - Other Target Minimum acceptable is 3 out of 4	MET Analysis During this reporting period, three students graduated from the program: two via the non-thesis track and one via the thesis track. All four students met this Student Learning Outcome, as evidenced by their performance on the comprehensive examination and thesis defense. Students achieved a mean score of 3.58 out of 4.0 on this outcome, indicating strong attainment.	<i>No actions have been added.</i>

SLO 2

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

MEASURES	RESULTS	ACTIONS
Measure 1 This outcome will be assessed using comprehensive examination questions focused on the design of engineering components in CVEN 5331 Biological Wastewater Treatment, CVEN 5329 Water Supply and Treatment, and CVEN 6333 Chemical Principles of Environmental Systems. Students select two of these three courses for the comprehensive examination. For thesis-track students, the final thesis defense and thesis document will serve as the basis for assessing this outcome. Direct - Other <i>Water Supply & Treatment: CVEN 5329</i> Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	MET Analysis During this reporting period, two students graduated from the program: one via the non-thesis track and two via the thesis track. All four students met this Student Learning Outcome, as evidenced by their performance on the comprehensive examination and thesis defense. Students achieved a mean score of 3.65 out of 4.0 on this outcome, indicating strong attainment.	<i>No actions have been added.</i>
Measure 2 Comprehensive Exam and Thesis Defense Direct - Other Target	MET Analysis During this reporting period, two students graduated from the program: two via the non-thesis track and one via the thesis track. All four students met this Student Learning Outcome, as evidenced by their performance on the	<i>No actions have been added.</i>

Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	comprehensive examination and thesis defense. Students achieved a mean score of 3.65 out of 4.0 on this outcome, indicating strong attainment.	
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SLO 3

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

MEASURES	RESULTS	ACTIONS
Measure 1 This outcome will be assessed using comprehensive examination questions focused on the design of engineering components in CVEN 5331 Biological Wastewater Treatment, CVEN 5329 Water Supply and Treatment, and CVEN 6333 Chemical Principles of Environmental Systems. Students select two of these three courses for the comprehensive examination. For thesis-track students, the final thesis defense and thesis document will serve as the basis for assessing this outcome. Direct - Other Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	MET Analysis All three graduates met this Student Learning Outcome, as evidenced by their performance on the comprehensive examination and thesis defense, achieving a mean score of 3.66 out of 4.0 and indicating strong attainment.	<i>No actions have been added.</i>
Measure 2 Projects and assignments in CVEN 5329; CVEN 5331; CVEN 6333 Direct - Assignment Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	MET Analysis All three graduates met this Student Learning Outcome, as evidenced by their performance on courses CVEN5329, CVEN5331, CVEN6333, achieving a mean score of 3.51 out of 4.0 and indicating strong attainment.	<i>No actions have been added.</i>

SLO 4

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

MEASURES	RESULTS	ACTIONS
Measure 1 Thesis Report will be used for this outcome	MET Analysis	<i>No actions have been added.</i>

Direct - Other Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	During this reporting period, one student graduated from the thesis track. Both students met this Student Learning Outcome, as evidenced by their performance on the thesis defense and thesis report. Students achieved a mean score of 3.50 out of 4.0 on this outcome, indicating strong attainment.	
Measure 2 Final Thesis Defense Direct - Presentation Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	MET Analysis During this reporting period, one student graduated from the thesis track. Both students met this Student Learning Outcome, as evidenced by their performance on the thesis defense and thesis report. Students achieved a mean score of 3.50 out of 4.0 on this outcome, indicating strong attainment.	<i>No actions have been added.</i>