

Academic Year 2025-2026

ME-Civil Engineering - ME-MECV Learning Outcomes

SLO 1

Students will demonstrate an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

MEASURES	RESULTS	ACTIONS
Measure 1 This outcome will be assessed using comprehensive examination questions focused on the SLO 1 components in CVEN 5324 Models in Hydrological Systems, CVEN 5364 Transportation Engineering & Traffic Analysis, CVEN 5381 Building Design and Construction, CVEN 5331 Biological Wastewater Treatment, CVEN 5329 Water Supply and Treatment, CVEN 6333 Chemical Principles of Environmental Systems, and CVEN 6334 Sustainability: Life Cycle. Students select two of these three courses for the comprehensive examination. Direct - Other Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above.	MET Analysis During this reporting period, 19 students graduated from the program. Students achieved a mean score of 3.62 out of 4.0 on this outcome, with more than 75% achieving the proficiency level mentioned above, indicating strong attainment.	<i>No actions have been added.</i>
Learning Outcome Perception Indirect - Survey Target 75% of the students will select 3 or better on their perception of mastery of the student learning outcome. MECV Survey 1.pdf	MET Analysis 97.4% of students selected option 3 or above, and 50.6% selected option 4, indicating a strong overall perception of mastery of the student learning outcome.	<i>No actions have been added.</i>

SLO2

Students will demonstrate an ability to apply engineering design to produce solutions appropriately.

MEASURES	RESULTS	ACTIONS
Measure 1 This outcome will be assessed using comprehensive examination questions focused on the SLO 2 components in CVEN 5324 Models in Hydrological Systems, CVEN	MET Analysis During this reporting period, 19 students graduated from the program. Students achieved a mean score of 3.35 out of 4.0 on this	<i>No actions have been added.</i>

5364 Transportation Engineering & Traffic Analysis, CVEN 5381 Building Design and Construction, CVEN 5331 Biological Wastewater Treatment, CVEN 5329 Water Supply and Treatment, CVEN 6333 Chemical Principles of Environmental Systems, and CVEN 6334 Sustainability: Life Cycle. Students select two of these three courses for the comprehensive examination. Direct - Other Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	outcome, with more than 75% achieving the proficiency level mentioned above, indicating strong attainment.	
Learning Outcome Perception Indirect - Survey Target 75% of the students will select 3 or 4 out of 4 as their perceived attainment of the learning outcome. MECV Survey 2.pdf	MET Analysis 93% of students selected option 3 or above, and 41% selected option 4, indicating a strong overall perception of mastery of the student learning outcome.	<i>No actions have been added.</i>

SLO 3

Students will demonstrate an ability to use modern engineering tools to produce engineering analysis in a systematic manner.

MEASURES	RESULTS	ACTIONS
Measure 1 This outcome will be assessed using comprehensive examination questions focused on the SLO 3 components in CVEN 5324 Models in Hydrological Systems, CVEN 5364 Transportation Engineering & Traffic Analysis, CVEN 5381 Building Design and Construction, CVEN 5331 Biological Wastewater Treatment, CVEN 5329 Water Supply and Treatment, CVEN 6333 Chemical Principles of Environmental Systems, and CVEN 6334 Sustainability: Life Cycle. Students select two of these three courses for the comprehensive examination. Direct - Other Target Minimum acceptable is 3 out of 4. 75% of students achieve the proficiency mentioned above	MET Analysis During this reporting period, 19 students graduated from the program. Students achieved a mean score of 3.61 out of 4.0 on this outcome, with more than 75% achieving the proficiency level mentioned above, indicating strong attainment.	<i>No actions have been added.</i>

Learning Outcome Perception Indirect - Survey Target 75% of students will select 3 or 4 out of 4 on their perceived attainment of the learning outcome. MECV_Survey_3.pdf	MET Analysis 92.1% of students selected option 3 or above, and 36.8% selected option 4, indicating a strong overall perception of mastery of the student learning outcome.	<i>No actions have been added.</i>
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