

## Mission



The mission of the Department of Mechanical Engineering is to provide students with high quality, accessible undergraduate and graduate mechanical engineering education; to engage and empower students with skills and knowledge to thrive in professional careers; and to serve society through economic and technological development of Southeast Texas and beyond.

Academic year 2024-2025

## BS in Mechanical Engineering - BS-MEEN Learning Outcomes

### Student Learning Outcome #1 **MET**

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

MEASURES	RESULTS	ACTIONS
<b>MEEN 4316 Final Report</b>  Direct - Other  <i>Engineering Design Project: MEEN 4316</i>  <b>Target</b>  75% of the students will achieve a score of 3 (out of 4) or above. <a href="#">SACS_BS_SLO1_Rubrics.pdf</a>	<b>MET</b>  MEEN 4316 Final Report ■ Exceeded ■ Met   0% 100%  <i>Values are not shown when too close to each other.            Click or use arrow keys to see details.</i>  Exceeded: 62% Met: 38%  Met Total: 100% Not Met Total:  <b>Analysis</b>  The target for this outcome is met. Most students performed very well in this senior design course.	<b>Revise Measurement / Assessment</b> <b>IN PROGRESS</b>  A formula will be created to account for both individual and team work. Recommended Due Date: 10/15/2025
<b>MEEN 4310 Final Report</b>  Direct - Assignment  <i>Integrated System Design: MEEN 4310</i>  <b>Target</b>  75% of the students will achieve a score of 3 or above. <a href="#">SACS_BS_SLO1_Rubrics.pdf</a>	<b>MET</b>  MEEN 4310 Final Report ■ Exceeded ■ Met   0% 100%  <i>Values are not shown when too close to each other.            Click or use arrow keys to see details.</i>  Exceeded: 67% Met: 33%  Met Total: 100% Not Met Total:  <b>Analysis</b>  The target of this outcome is met, and student did well in this class.	<b>Revise Measurement / Assessment</b> <b>IN PROGRESS</b>  A formula will be created to account for both individual and team work. Recommended Due Date: 10/15/2025

## General Outcome Actions



ACTIONS
<b>Revise Measurement / Assessment</b> <b>IN PROGRESS</b> It is planned to adopt some new measurement for this outcome. Recommended Due Date: 10/15/2025

## Conclusion

The target of this outcome is met, and all the students have a score of 3 or 4.

## Student Learning Outcome #2 **MET**

Students will demonstrate an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

MEASURES	RESULTS	ACTIONS
<b>MEEN 4316 Final Reports</b> Direct - Assignment <i>Engineering Design Project: MEEN 4316</i> <b>Target</b> 75% of the students will achieve a score of 3 out of 4 or above. <a href="#">SACS BS SLO2 Rubrics.pdf</a>	<b>MET</b> MEEN 4316 Final Reports ■ Exceeded ■ Met  0% 100% <small>Values are not shown when too close to each other. Click or use arrow keys to see details.</small> Exceeded: 74% Met: 26% Met Total: 100% Not Met Total: <b>Analysis</b> The target of this outcome is met, and students did well in this course.	<b>Revise Measurement / Assessment</b> <b>IN PROGRESS</b> A formula will be created to account for both individual and team work. Recommended Due Date: 10/15/2025
<b>MEEN 4310 Final Report</b> Direct - Assignment <i>Integrated System Design: MEEN 4310</i> <b>Target</b> 75% of the students will achieve a score of 3 or above. <a href="#">SACS BS SLO2 Rubrics.pdf</a>	<b>MET</b> MEEN 4310 Final Report ■ Exceeded ■ Met  0% 100% <small>Values are not shown when too close to each other. Click or use arrow keys to see details.</small> Exceeded: 28% Met: 72%	<b>Revise Measurement / Assessment</b> <b>IN PROGRESS</b> A formula will be created to account for both individual and team work. Recommended Due Date: 10/15/2025

	<div>Met Total:100%</div> <div>Not Met Total:</div> <div>Analysis</div> <div>The target of this outcome is met, and students did well in this class.</div>	
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General Outcome Actions

ACTIONS
<div>Revise Measurement / Assessment</div> <div>IN PROGRESS</div> <div>It is planned to adopt some new measurement for this outcome</div> <div>Recommended Due Date: 10/15/2025</div>

Conclusion

The target of this outcome is met, all the students (100%) have a score of 3 or 4.

Student Learning Outcome #3 MET

Students will demonstrate an ability to communicate effectively with a range of audiences.

MEASURES	RESULTS	ACTIONS
<div>MEEN 4316 Project Final Presentation</div> <div>Direct - Assignment</div> <div>Engineering Design Project: MEEN 4316</div> <div>Target</div> <div>75% of the students will achieve a score of 3 out of 4 or above.</div> <div><a href="#">SACS_BS_SLO3_Rubrics.pdf</a></div>	<div>MET</div> <div>MEEN 4316 Project Final Presentation</div> <div><div>ExceededMet</div><div><div></div></div><div>0%100%</div><div>Values are not shown when too close to each other. Click or use arrow keys to see details.</div><div>Exceeded:74%</div><div>Met:26%</div><div>Met Total:100%</div><div>Not Met Total:</div><div>Analysis</div><div>The target of this outcome is met in this course, and the students did well in their design project.</div></div>	<div>Revise Measurement / Assessment</div> <div>IN PROGRESS</div> <div>A formula will be created to account for both individual and team work.</div> <div>Recommended Due Date: 10/15/2025</div>
<div>MEEN 4310 Project Final Presentation</div> <div>Direct - Assignment</div>	<div>MET</div> <div>MEEN 4310 Project Final Presentation</div>	<div>Revise Measurement / Assessment</div> <div>IN PROGRESS</div>

<p><i>Integrated System Design: MEEN 4310</i></p> <p><b>Target</b></p> <p>75% of the students will achieve a score of 3 or above.</p> <p><a href="#">SACS_BS_SLO3_Rubrics.pdf</a></p>	<div><div>ExceededMet</div><div><div></div><div></div></div><div>0%100%</div><div>Values are not shown when too close to each other. Click or use arrow keys to see details.</div><div>Exceeded: 67% Met: 33%</div><div>Met Total: 100% Not Met Total:</div><div>Analysis</div><div>The target of this outcome is met, and the students did well in their projects.</div></div>	<p>A formula will be created to account for both individual and team work.</p> <p>Recommended Due Date: 10/15/2025</p>
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### General Outcome Actions

ACTIONS
<p><b>Revise Measurement / Assessment</b></p> <p>IN PROGRESS</p> <p>More measurements are planned to adopt for this outcome.</p> <p>Recommended Due Date: 10/15/2025</p>

### Conclusion

The target of this outcome is met, all the students (100%) have a score of 3 or 4.