

Academic Year 2025-2026

BS in Industrial Engineering - BS-INEN Learning Outcomes

Solve complex engineering problems

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

MEASURES	RESULTS	ACTIONS																																													
Senior Design Project A review of senior design projects from a 2 semester senior design course. The written document is review. Faculty also attend the oral presentation. Direct - Assignment IE Design: INEN 4385 Target For example, 70% of the students will achieve a score of 3 or above. ABET Outcome Assessment 2026.docx rubrics.docx	NOT MET Summary Overall the outcomes passed except for rubric element on regulations. <table><thead><tr><th>Rubric Element</th><th>Ratings > 2</th><th>Total Ratings</th><th>Percent > 2</th><th>Result</th></tr></thead><tbody><tr><td>Math, Science and Engineering Concepts</td><td>19</td><td>20</td><td>95%</td><td>Pass</td></tr><tr><td>Math and Engineering Formulation</td><td>19</td><td>20</td><td>95%</td><td>Pass</td></tr><tr><td>Diagrams and Sketches Use</td><td>20</td><td>20</td><td>100%</td><td>Pass</td></tr><tr><td>Terminology and Notation</td><td>20</td><td>20</td><td>100%</td><td>Pass</td></tr><tr><td>Strategy and Procedures</td><td>20</td><td>20</td><td>100%</td><td>Pass</td></tr><tr><td>Constraints</td><td>20</td><td>20</td><td>100%</td><td>Pass</td></tr><tr><td>Objective and Goals</td><td>19</td><td>20</td><td>95%</td><td>Pass</td></tr><tr><td>Regulations and Standards</td><td>13</td><td>20</td><td>65%</td><td>Does Not Pass</td></tr></tbody></table> Analysis Including standards and codes (regulations) in senior design did not pass.	Rubric Element	Ratings > 2	Total Ratings	Percent > 2	Result	Math, Science and Engineering Concepts	19	20	95%	Pass	Math and Engineering Formulation	19	20	95%	Pass	Diagrams and Sketches Use	20	20	100%	Pass	Terminology and Notation	20	20	100%	Pass	Strategy and Procedures	20	20	100%	Pass	Constraints	20	20	100%	Pass	Objective and Goals	19	20	95%	Pass	Regulations and Standards	13	20	65%	Does Not Pass	Revise Curriculum IN PROGRESS The role of codes and standards (regulations) will be emphasized in the senior design project presentation instructions. Overall, the faculty are very pleased with this years senior design projects for the other rubric elements. Recommended Due Date: 08/20/2026
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INEN 4392 Database Projects 80 percent of students achieve a score of 3 or above on the departments rubric. Direct - Presentation Target 80% of student achieve a score of 3 or above.	MET INEN 4392 Database Projects Exceeded 0%100% Values are not shown when too close to each other. Click or use arrow keys to see details. Exceeded:100% Met Total:100% Not Met Total:	No actions have been added.																																													

Solve problems with conflicting technical issues ...

Ability to solve problems with conflicting technical issues ...

MEASURES	RESULTS	ACTIONS
Project Report Direct - Assignment <i>IE Design: INEN 4385</i> Target 70% of the students achieve 3 or above on assignment.	NOT MET Summary The outcome was mostly achieved. The culture element of the rubric was not meet due to the types of project this year. ABET Outcome Assessment 2026.docx	Gather Additional Data Not Started We will gather projects next year. This years projects were not supportive of this outcome.
INEN 4394 Database Projects Direct - Presentation Target 80% of the students will achieve a score of 3 or above on department standard rubric for metric.	MET INEN 4394 Database Projects ■ Exceeded  0% 100% Values are not shown when too close to each other. Click or use arrow keys to see details. Exceeded: 100% Met Total: 100% Not Met Total: Analysis The students performed well on the project.	No actions have been added.

Apply Math, Science, and Engineering

Appropriately applies math, engineering, and science to achieve soluti

MEASURES	RESULTS	ACTIONS
Senior Design Project Direct - Assignment <i>IE Design: INEN 4385</i> Target 80% of students projects are above the standard.	MET Summary The target was meet. ABET Outcome Assessment 2026.docx Analysis The majority of projects were above the standard.	No actions have been added.

INEN 4394 Database The department standard rubric was used to assess the projects in database by Dr. Curry, Dr. Bradley and Dr. Li. Direct - Presentation Target 80% of the students will achieve a score of 3 or above.	MET INEN 4394 Database ■ Exceeded  0%100% <i>Values are not shown when too close to each other. Click or use arrow keys to see details.</i> Exceeded: 100% Met Total: 100% Not Met Total: Analysis The students did well on this project.	No actions have been added.
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Assessment Report Summary

The outcomes were assessed in senior design and engineering database. The results demonstrate strong design skills in both courses. The sub-items of regulations and organizational culture were low in senior design. The reason for being low was mostly the project selected this year.