



NORTHERN ILLINOIS UNIVERSITY

College of Engineering and Engineering Technology

Major: Mechanical Engineering

Degree: B.S.

Date Revised: January 28, 2021

Student Learning Outcomes and proposed Methods for collecting data (from assessment plan)

Student Learning Outcomes		Methods of Assessment
1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	<ul style="list-style-type: none">• Course and Program Outcome Assessment (1-7)• Capstone Design Project (MEE 485 & MEE 486) (1-7)• Exit Survey (1-7)• Alumni Survey (1-7)
2	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.	
3	An ability to communicate effectively with a range of audiences.	
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	