NORTHERN ILLINOIS UNIVERSITY

College of Engineering and Engineering Technology

Major: Industrial and Systems Engineering

Degree: B.S.

Date Revised: November 11, 2020

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

	Student Learning Outcomes
1	An ability to identify, formulate, and solve complex Industrial and Systems engineering problems by applying principles of engineering, science, and mathematics.
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.

Methods of Assessment
• Course-Embedded Assessments (1-7) • External Reviewers of the Capstone Design Course (1,3) • Exit Survey (1-7) • Employer Survey (1-7)