



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

**Major: Industrial and Systems  
Engineering**

**Degree: B.S.**

**Date Revised: May 30, 2019**

### 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 Industrial and Systems engineering problems by applying principles of engineering, science, and mathematics	<ul style="list-style-type: none"><li>• Course-Embedded Assessments (1-7)</li><li>• External Reviewers of the Capstone Design Course (1-7)</li><li>• Exit Survey (1-7)</li><li>• Employer Survey (1-7)</li></ul>
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.	