



NORTHERN ILLINOIS UNIVERSITY

# College of Engineering and Engineering Technology

**Major: Mechatronics**

**Degree: B.S.**

**Date Revised: 2017-2018**

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

Student Learning Outcomes	
1	An ability to identify, formulate, and solve complex 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
<ul style="list-style-type: none"><li>• Course and Program Outcome Assessment (1-7)</li><li>• Senior Design Project (1-7)</li><li>• Internship Industrial Employer Survey (1-7)</li><li>• Student Survey (1-7)</li><li>• Alumni Survey (1-7)</li><li>• Employer Survey (1-7)</li></ul>