



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

Major: Mechatronics

Degree: B.S.

Date Revised: January 29, 2021

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

	Student Learning Outcomes
1	<b>Problem Formulation:</b> An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2	<b>Engineering Design:</b> 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	<b>Communication:</b> An ability to communicate effectively with a range of audiences.
4	<b>Ethics:</b> 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	<b>Teamwork:</b> 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	<b>Experimentation and Data Analysis:</b> An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7	<b>Learning and Applying New Knowledge:</b> 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-embedded Assessment (1-7)</li><li>• Exit Survey (1-7)</li></ul>