NORTHERN ILLINOIS UNIVERSITY

College of Engineering and Engineering Technology

Department of Mechanical Engineering

Major: Mechanical Engineering

Degree: M.S.

Date Revised: January 16, 2013

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

	Student Learning Outcomes
1	Apply advanced analytical and computational techniques to engineering problems
2	Design a system, component, or process to meet desired objectives in one of the specialty areas: applied mechanics, computer-aided design & manufacturing, thermal-fluid systems, vibrations, dynamics & control systems
3	Identify, formulate, and solve complex engineering problems
4	Conduct research in one of the specialty areas
5	Communicate effectively
6	Demonstrate professional and ethical responsibility
7	Use modern engineering experimental and computational tools at a level appropriate for advanced analysis and design

Methods of Assessment
• Course Assessment Survey (1,2,3,7)
• Thesis/Project (1,4,5,6,7)
• Student survey (1-7)
• Alumni survey (1-7)
• Employer survey (1-7)