



NORTHERN ILLINOIS UNIVERSITY

College of Engineering and Engineering Technology

Major: Industrial and Systems Engineering

Degree: Ph.D.

Date Revised: 2017

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

Student Learning Outcomes		Methods of Assessment
1	Advanced Knowledge: Master advanced concepts, methods, and technologies in industrial and systems engineering thrust areas.	<ul style="list-style-type: none"> • Linear Programming and Network Flows (ISYE 671) (1, 2) • Ph.D. Candidacy Examination (2) • Industry Residency (ISYE 701) (3-5) • Dissertation Proposal Examination (1-5) • Dissertation Report and Defense (1-5) • Research Committee Meetings (1-5) • Doctoral Dissertation Research (ISYE 799) (1-5)
2	Methods: Understand and apply research methodologies to relevant industrial and systems engineering questions, issues, and problems.	
3	Research: Conduct independent research that results in an original contribution to knowledge that meets all the standards for responsible conduct of research.	
4	Ethics: Demonstrate knowledge and understanding of ethical standards in executing research.	
5	Communication: Communicate research to both technical and general audiences in an effective manner through oral and written formats.	