

# Assessment: Assessment Plan

## Degree Program - ENG - Industrial Engineering (MSIE)

**CIP Code:** 14.3501.00

**Degree Program Coordinator:** Jennifer Cross

**Degree Program Coordinator Email:** jennifer.cross@ttu.edu

**Degree Program Coordinator Phone:** (806) 834-6161

**Degree Program Coordinator Mail Stop:** 3061

**Program Purpose Statement:** The mission of the department is to provide the highest quality of industrial engineering education by stimulating discovery, integration, application, and communication of knowledge.

**Modality:** Fully Online (86-99% Online), Face-to-Face

### Student Learning Outcome: Communication

Students will demonstrate ability to effectively communicate through oral and written means.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/24/2015

#### Assessment Methods

##### Master's Comprehensive Exam - Master's Comprehensive Exam – Communication Rubric (Active)

**Criterion:** Pre-2017-2018: 80% of students will score at least 3.0/4.0 on the rubric  
2017-2018 and beyond: 50% of students will score at least 3.0/4.0 on the rubric

**Schedule:** Every year. Assessment will start 08/25/2015. Data will be collected by faculty administering the Master's Comp Exam every time that exam is offered and results compiled.

##### Student Exit Survey - Master's Exit Survey – Communication Rubric (Active)

**Criterion:** Pre-2019-2020: 80% of students will score at least 3.0/4.0 on the rubric  
2019-2020 and beyond: 50% of students will score at least 3.0/4.0 on the rubric

**Schedule:** Every year. Assessment will start 08/25/2015. Data will be collected as a co-requirement with the Master's Comp Exam every time that exam is offered and rubric will be applied by the graduate committee chair. Results will be compiled.

### Student Learning Outcome: Fundamental Knowledge of Concepts

Students will demonstrate fundamental knowledge of industrial engineering (IE) concepts.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/24/2015

#### Assessment Methods

##### Master's Comprehensive Exam - Master's Comprehensive Exam –Results (Active)

**Criterion:** 90% of students will pass the exam.

**Schedule:** Every year. Assessment will start 08/25/2015. Data will be collected every time exam is offered and results compiled.

# Degree Program - ENG - Industrial Engineering (MSIE)

## Student Exit Survey - Master's Exit Survey – Fundamental Knowledge Questions (Active)

**Criterion:** 80% of students will score at least 8.0/10.0 on the questions related to knowledge gained from the program.

**Schedule:** Every year. Assessment will start 08/25/2015. Data will be collected as a co-requirement with the Master's Comp Exam every time that exam is offered and results compiled.

## Student Learning Outcome: Professional Settings

Students will demonstrate ability to work effectively in professional settings.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/24/2015

### Assessment Methods

#### Student Exit Survey - Master's Exit Survey – Teamwork Questions (Active)

**Criterion:** Pre-2017-2018: 90% of students will score at least 8.0/10.0 on the questions related to their experience working in teams in the program.

2017-2018 and beyond: 80% of students will score at least 8.0/10.0 on the questions related to their experience working in teams in the program.

**Schedule:** Every year. Data will be collected each year during the Spring semester for the previous academic year's graduates. Results will be compiled.

#### Employment - LinkedIn Searching – Job Placement (Active)

**Criterion:** 70% of students with industry or academic placement within 1 academic year of graduation.

Note: Prior to 2018-19 a Student Exit Survey was used.

**Schedule:** Every year. Data will be collected each year during the Spring semester for the previous academic year's graduates. Results will be compiled.