



2016-2017 Assessment Cycle

Assessment Plan

Mission Statement

Mission Statement - Engineering Studies

Primary Vision

The Department of Engineering Studies will be a leader in providing technical education, academic support, and encouragement to prepare deaf and hard-of-hearing students for careers in engineering, engineering technology and engineering-related fields.

Mission Statement

The Department of Engineering Studies' mission is to provide the best academic experience for our students' growth and achievement during their learning experiences at RIT/NTID in preparation for a successful career.

The Department of Engineering Studies will offer intensive real-world practices in technical classes taught by experienced faculty who communicate well with deaf and hard-of-hearing students. They provide opportunities for students to develop skill sets that are in demand by industry. Students gain fundamental skills for entry-level positions within engineering and engineering technology fields as well as advanced learning opportunities offered through the other colleges of RIT.

Outcomes and Measures

Applied Mechanical Technology AAS Program Outcome Set

Develop knowledge of traditional manufacturing techniques and how they relate to basic engineering concepts

Demonstrate competency in design and manufacturing of mechanical components

▼ **Measure:** Mechanical Design & Fab [NETS-150] and Lab [NETS-151] - Graded assignment
Course level; Direct - Student Artifact

Details/Description:

Acceptable Benchmark: 75% of students will achieve a grade of C or better on written test and final project

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2013/2014

Key/Responsible Personnel: Data collected by Assessment Coordinator

Preparation for entry to CAST manufacturing and mechanical engineering technology programs

Demonstrate competency in core

▼ **Measure:** Complete Core Courses and Change of Program Form

technical courses needed to meet admissions requirements into CAST manufacturing and mechanical engineering

Details/Description: Course grades and Change of Program form
Complete any four of the following courses and the Change of Program Form.
Fundamentals of Engr. [NETS-101]
Foundations of Mat'l [NETS-110]
Foundations of Mat'l Lab [NETS-111]
Manufacturing Process [NETS-120]
Mechanical Design & Fab [NETS-150]
Lab Mechanical Design & Fab [NETS-151]

Acceptable Benchmark: 75% of students completing the AMT degree will achieve a grade of C or better in all four core courses and be accepted into CAST mechanical or manufacturing engineering technology programs.

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2013/2014

Key/Responsible Personnel: Data collected by Assessment Coordinator

Success in course work required in CAST mechanical or manufacturing engineering technology programs

Demonstrate competency in analysis and design of structures and machine components

▼ **Measure:** Strength of Materials [MCET-221] - Course grade
Course level; Indirect - Other

Details/Description:

Acceptable Benchmark: 75% of students will achieve a grade of C or better

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2014/2015

Key/Responsible Personnel: Data collected by Assessment Coordinator

Success in CAST BS mechanical or manufacturing engineering technology programs

Earn BS degree in CAST mechanical or manufacturing engineering technology

▼ **Measure:** Graduation Rates

Details/Description:

Acceptable Benchmark: For AMT graduates who transfer to a CAST engineering program, retention and graduation rates will not be significantly different than those of other transfer students

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2016/2017

Key/Responsible Personnel: Data collected by Assessment Coordinator

Achieve student satisfaction with AMT courses and program

Graduates of the AMT program will indicate satisfaction with courses and program

▼ **Measure:** Student Satisfaction Survey Instrument
Program level; Indirect - Survey

Details/Description:

Acceptable Benchmark: 75% of students graduating will indicate "satisfaction" with AMT courses and the program on the Student Satisfaction Survey Instrument.

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2014/2015

Key/Responsible Personnel: Data collected by Assessment Coordinator

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