

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.

Measures

▼ Applied Mechanical Technology AAS Program Outcome Set

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

Student Learning Outcome: 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

Student Learning Outcome: Demonstrate competency in core technical courses needed to meet admissions requirements into CAST manufacturing and mechanical engineering

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

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

Student Learning Outcome: 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

Student Learning Outcome: 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

Student Learning Outcome: 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