2015-2016 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 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**

**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
Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2014/2015
Key/Responsible Personnel: Data collected by Assessment Coordinator