

2017-2018 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.

### Measures

#### ▼ Civil Technology AAS Program Outcome Set

Understand how to use productivity software to solve technical problems

#### Student Learning Outcome: Use CAD to produce 2D technical drawings

##### ▼ **Measure:** Engineering Graphics [NCAD-150] - Final Exam *Course level; Direct - Exam*

Details/Description:	Technical Drawing
Acceptable Benchmark:	80% of students will score 75% or better on final exam grade using the scoring guide
Implementation Plan (timeline):	Collection: Annually at the end of fall semester.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Student Learning Outcome: Solve mathematical problems as related to technical drawings**

▼ **Measure:** Civil Technology Graphics [NCAD-180] - Final Exam  
*Course level; Direct - Exam*

Details/Description:	Technical Problem Solving
Acceptable Benchmark:	80% of students will score 75% or better on final exam technical problem solving
Implementation Plan (timeline):	Collection: Annually at the end of spring semester
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Student Learning Outcome: Develop a simple building model that communicates information for design and construction**

▼ **Measure:** Civil Technology Graphics [NCAD-180] - Project  
*Course level; Direct - Student Artifact*

Details/Description:	Final CAD model project scoring guide
Acceptable Benchmark:	80% of students will score 75% or better on final CAD model project using the scoring guide
Implementation Plan (timeline):	Collection: Annually at the end of spring semester
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Prepare for entry to CAST Civil Engineering Technology program

**Student Learning Outcome: Demonstrate competency in core technical courses needed to meet admissions requirements into CAST Civil Engineering Technology Program**

▼ **Measure:** Course Grades & Change of Program Form - Engineering Graphics [NCAD-150], Constr. Matls & Meths [NCAD-255] & Civil Tech Graphics [NCAD-180]

Details/Description:	Engineering Graphics [NCAD-150], Construction Materials and Methods [NCAD-255], and Civil Technology Graphics
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	[NCAD-180]
Acceptable Benchmark:	75% of students completing the CT degree will achieve a grade of 'C' or better in all three core courses and be accepted into CAST CET program
Implementation Plan (timeline):	Collection: Annually at the end of spring semester
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Prepare for success in course work required in CAST Civil Engineering Technology program

**Student Learning Outcome: Demonstrate competency in analysis of materials**

▼ **Measure:** Strength of Materials [MCET-221] - Course Grade

Details/Description:	
Acceptable Benchmark:	75% of students will achieve a grade of 'C' or better
Implementation Plan (timeline):	Collection: Annually at the end of spring semester
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Prepare for success in CAST BS Civil Engineering Technology program

**Student Learning Outcome: Earn BS degree in CAST Civil Engineering Technology program**

▼ **Measure:** Graduation Rates

Details/Description:	
Acceptable Benchmark:	For CT graduates who enter CAST Civil Engineering Technology program, retention and graduation rates will not be significantly different than those of other transfer students
Implementation Plan (timeline):	Collection: Annually at the end of spring semester
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Achieve student satisfaction with CT courses and program

**Student Learning Outcome: Graduates of the CT 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 CT courses and the program on the Student satisfaction survey instrument

Implementation Plan (timeline): Collection: Annually at the end of spring semester

Key/Responsible Personnel: Data collected by Assessment Coordinator