

2020-2021 Assessment Cycle

## **Assessment Plan**

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### **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**

#### **Architectural and Civil Drafting Technology AAS/AOS Program Outcome Set**

Develop the ability to produce accurate 2-D drawings and Building Information Modeling (BIM) projects

**Outcome: Use CAD to produce 2D technical drawings**

▼ **Measure:** Engineering Graphics [NCAD-150]

*Course level Direct - Student Artifact*

Details/Description:	Technical Drawing Practical. Practical grade.
Acceptable Benchmark:	80% of students will score 75% or better on final practical grade
Implementation Plan (timeline):	Collection: annually at end of fall semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Outcome: Extract and modify orthographic technical drawings from a BIM model**

▼ **Measure:** Construction CAD III [NCAD-230]

*Course level Direct - Portfolio*

Details/Description:	Final Project Review of Construction Documents. Project grade.
Acceptable Benchmark:	80% of students will score 75% or better on final project review grade
Implementation Plan (timeline):	Collection: annually at end of fall semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Outcome: Create and use a BIM project to produce detailed sections and other details**

▼ **Measure:** Advanced Construction CAD [NCAD-240]  
*Course level Direct - Student Artifact*

Details/Description:	Course embedded final project. Project grade.
Acceptable Benchmark:	80% of students will score 75% or better on final project grade
Implementation Plan (timeline):	Collection: annually at end of fall semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Develop supporting skills typical of a technician in the field of architecture, civil engineering, and construction

**Outcome: Identify characteristics of common construction materials**

▼ **Measure:** Construction Materials and Methods II [NCAD-265]  
*Program level Direct - Exam*

Details/Description:	Final Exam. Exam grade.
Acceptable Benchmark:	80% of students will score 75% or better on course final exam
Implementation Plan (timeline):	Collection: annually at end of spring semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Outcome: Gather information from technical drawings and from the field**

- ▼ **Measure:** Data Collection and Analysis [NCAD-108]  
*Course level Direct - Exam*

Details/Description:	Final Exam. Exam Grade.
Acceptable Benchmark:	80% of students will score 75% or better on final exam
Implementation Plan (timeline):	Collection: annually at end of spring semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Outcome: Identify issues related to sustainability in the construction industry**

- ▼ **Measure:** Energy Modeling for Sustainable Construction [NCAD-245]  
*Course level Direct - Exam*

Details/Description:	Sustainability Exam. Exam grade.
Acceptable Benchmark:	80% of students will score 75% or better on sustainability exam
Implementation Plan (timeline):	Collection: annually at end of spring semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Develop the skills to create and deliver presentations

**Outcome: Develop a portfolio of student projects in both hard copy and electronic form**

▼ **Measure:** Job Search Process for CADT [NCAD-201]  
*Course level Direct - Portfolio*

Details/Description:	Student Portfolio. Portfolio review grade.
Acceptable Benchmark:	80% of students will score 75% or better on portfolio review
Implementation Plan (timeline):	Collection: annually at end of spring semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

**Outcome: Generate quality renderings and animations from CAD and BIM projects**

▼ **Measure:** Presentation Graphics [NCAD-250]  
*Course level Direct - Student Artifact*

Details/Description:	Final project presentation. Final project presentation grade.
Acceptable Benchmark:	80% of students will score 75% or better on final project grade
Implementation Plan (timeline):	Collection: annually at end of fall semester. Spreadsheet for data collection.
Key/Responsible Personnel:	Data collected by Assessment Coordinator

Develop positive skills required to be effective on the job

**Outcome: Apply technical knowledge and skills on a co-op work experience**

- ▼ **Measure:** Co-op Work Experience [NCAD-299] - RIT Supervisor Online Co-op Evaluation System  
*Course level Direct - Other*

Details/Description:	Performance on the job
Acceptable Benchmark:	80% of students will meet or exceed overall satisfactory score on co-op job
Implementation Plan (timeline):	Collection: annually at end of summer. RIT Supervisor Online Co-op Evaluation System.
Key/Responsible Personnel:	Data collected by NTID Center on Employment (NCE)

**Outcome: Indicate satisfaction with program and courses**

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

Details/Description:	Upon completion of final semester. Survey results.
Acceptable Benchmark:	80% of students will rate all aspects of the program and courses as satisfactory or above
Implementation Plan (timeline):	Collection: annually near the end of fall semester. Survey results summary.

Key/Responsible  
Personnel:

Data collected by Assessment Coordinator

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