2019-2020 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

Computer Aided 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: Identifiy 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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