



2014-2015 Assessment Cycle

Key Findings

Finding per Measure

Computer Aided Drafting Technology AAS/AOS Program Outcome Set

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

Use CAD to produce 2D technical drawings

▼ **Measure:** Engineering Graphics [NCAD-150] - Technical Drawing Practical
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 beginning AY 2013/2014.
Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Engineering Graphics [NCAD-150] - Technical Drawing Practical

Summary of Findings: 100% of students scored 75% or better on the final practical assignment.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Extract and modify orthographic technical drawings from a BIM model

▼ **Measure:** Construction CAD II [NCAD-220] - Final Portfolio Review of Construction Documents
Course level; Direct - Portfolio

Details/Description: Portfolio grade

Acceptable Benchmark: 80% of students will score 75% or better on final portfolio review grade

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2014/2015.
Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Construction CAD II [NCAD-220] - Final Portfolio Review of Construction Documents

Summary of Findings: 90% of the students (n=10) scored better than 75% on their final portfolio review.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Generate reports on information contained in a BIM model

▼ **Measure:** Construction CAD II [NCAD-220] - Course Embedded Assignments
Course level; Direct - Student Artifact

Details/Description: Course embedded assignments. Rubric scale 1-5.

Acceptable Benchmark: 80% of students will score 3 or more on the rubric scale 1-5.

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2014/2015. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Construction CAD II [NCAD-220] - Course Embedded Assignments

Summary of Findings: 100% of the students (n=10) scored a 3 or better on the assignments.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Create a BIM project based on preliminary information

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

Details/Description: 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 beginning AY 2015/2016. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Advanced Construction CAD [NCAD-240] - Course Embedded Project

Summary of Findings: 83% of the students (n=6) scored 75% or better on the final project.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Use a BIM project as a basis to produce detailed sections and other details

▼ **Measure:** Advanced Construction CAD [NCAD-240] - Final portfolio review of construction documents
Course level; Direct - Portfolio

Details/Description: Portfolio grade

Acceptable Benchmark: 80% of students will score 75% or better on final portfolio review grade

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Advanced Construction CAD [NCAD-240] - Final portfolio review of construction documents

Summary of Findings: 67% of the students scored a 75% or better on the final portfolio review.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations : Students need to be reminded during the semester to keep their portfolios up to date.

Reflections/Notes : A few students did not update their portfolios.

Develop the skills to acquire, record and analyze information derived from field measurements, existing drawings & other technical documents

Create and interpret dimensions for technical drawings

▼ **Measure:** Data Collection and Analysis [NCAD-108] - Final Dimensioning Practical
Course level; Direct - Student Artifact

Details/Description: Practical grade

Acceptable Benchmark: 80% of students will score 75% or better on final dimensioning practical grade

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2013/2014. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Data Collection and Analysis [NCAD-108] - Final Dimensioning Practical

Summary of Findings: 83% of the students scored 75% or better on the dimensioning practical

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Define appropriate technical vocabulary as used by the construction industry

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

Details/Description: Exam grade

Acceptable Benchmark: 80% of students will score 75% or better on final vocabulary exam grade

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2013/2014. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Data Collection and Analysis [NCAD-108] - Final Vocabulary Exam

Summary of Findings: 75% of the students (n=12) scored 80% or better on the vocabulary exam.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations : More vocabulary practice.

Reflections/Notes :

Field measure and input existing space conditions into CAD

▼ **Measure:** Data Collection and Analysis [NCAD-108] - Course project
Course level; Direct - Student Artifact

Details/Description: Project grade

Acceptable Benchmark: 80% of students will score 75% or better on course project grade.

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2013/2014
Spreadsheet for data collection

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Data Collection and Analysis [NCAD-108] - Course project

Summary of Findings: 83% of the students (n=12) scored 75% or better on the project grade.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Research technical information and incorporate into drawings and documentation

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

Details/Description:

Acceptable Benchmark: 80% of students will score 3 or above on incorporating technical information into design project. Rubric scale: 1-5.

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016
Spreadsheet for data collection

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Advanced Construction CAD [NCAD-240] - Design project

Summary of Findings: 83% of the students (n=6) scored 3 or better on the final design project

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Understand the basic characteristics of construction materials and procedures

Identify various construction materials using correct terminology

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

Details/Description: Exam grade

Acceptable Benchmark: 80% of students will score 75% or better on terminology exam

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2014/2015
Spreadsheet for data collection

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Construction Materials and Methods II [NCAD-265] - Terminology Exam

Summary of Findings: Only 50% of the students scored 75% or better on the

vocabulary exam.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations : More vocabulary review is needed.

Reflections/Notes : Deaf and H-of-H students typically struggle with vocabulary. They need to see a greater connection visually with terminology rather than simply giving them a definition.

Identify characteristics of common construction materials

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

Details/Description: 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 beginning AY 2014/2015. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Construction Materials and Methods II [NCAD-265] - Final Exam

Summary of Findings: 80% of students (n=10) scored 75% or better on the final exam.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Develop the skills to create and present visualization materials

Develop and maintain a portfolio of student projects in both hard copy and electronic form

▼ **Measure:** Construction CAD III [NCAD-230] - Student Portfolio
Course level; Direct - Portfolio

Details/Description:

Acceptable Benchmark: Portfolio review grade 80% of students will score 75% or better on portfolio review

Implementation Plan (timeline): Collection: annually at end of spring semester beginning AY 2014/2015. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Construction CAD III [NCAD-230] - Student Portfolio

Summary of Findings: 90% of students (n=10) scored 75% or better on their portfolio review.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Generate renderings and animations from CAD and BIM projects

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

Details/Description: Final 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 beginning AY 2015/2016. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Presentation Graphics [NCAD-250] - Final Project

Summary of Findings: 83% of the students (n=6) scored 75% or better on the final project

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Effectively prepare and present projects utilizing presentation graphics

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

Details/Description: Final project presentation grade

Acceptable Benchmark: 80% of students will score 75% or better on final project presentation grade

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Presentation Graphics [NCAD-250] - Final project presentation

Summary of Findings: 83% of the students (n=6) scored 75% or better on the project presentation.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Demonstrate creative skills on a design project

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

Details/Description: Design project grade

Acceptable Benchmark: 80% of students will score 75% or better on design project grade

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Advanced Construction CAD [NCAD-240] - Design Project

Summary of Findings: 83% of the students (n=6) scored 75% or better on the design project

Results: Acceptable Benchmark Achievement: Met

Recommendations :
Reflections/Notes :

Understand current issues affecting the construction industry

Explain the purpose and role of building codes in the construction industry

▼ **Measure:** Principles of Structural Systems [NCAD-275] and Presentation Graphics [NCAD-250] - Building Codes Exam
Course level; Direct - Exam

Details/Description: Exam grade

Acceptable Benchmark: 80% of students will score 75% or better on building codes exam

Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2014/2015. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Principles of Structural Systems [NCAD-275] and Presentation Graphics [NCAD-250] - Building Codes Exam

Summary of Findings: Only 40% of the students (n=10) scored 75% or better on the exam covering building codes.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations : More practice reading technical literature

Reflections/Notes : Students found the language in the building codes to be challenging. They need more assistance with understanding the language and doing the calculations.

Identify issues related to sustainability in the construction industry

▼ **Measure:** MEP Systems [NCAD-285] - Sustainability Exam
Course level; Direct - Exam

Details/Description: 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 beginning AY 2014/2015. Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for MEP Systems [NCAD-285] - Sustainability Exam

Summary of Findings: 100% of the students (n=10) scored 75% or better on the final exam on sustainability.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Develop positive skills required to be effective on the job

Engage productively in a collaborative team project

▼ **Measure:** Advanced Construction CAD [NCAD-240] - Team project
Course level; Indirect - Other

Details/Description: Self evaluation, peer review and teacher evaluation using rubric scale: 1-5
Acceptable Benchmark: 80% of students will score 3 or more on the rubric scale 1-5
Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection.
Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Advanced Construction CAD [NCAD-240] - Team project

Summary of Findings: 83% of students (n=6) scored 3 or better on their team project.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

Accurately and clearly present technical information to an audience of peers

▼ **Measure:** Presentation Graphics [NCAD-250] - Final Project Presentation
Course level; Direct - Other

Details/Description: Self evaluation, peer review and teacher evaluation using rubric scale: 1-5
Acceptable Benchmark: 80% of students will score 3 or more on the rubric scale 1-5
Implementation Plan (timeline): Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection.
Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Presentation Graphics [NCAD-250] - Final Project Presentation

Summary of Findings: 83% of students (n=6) scored 3 or better on their final presentation.

Results: Acceptable Benchmark Achievement: Met

Recommendations :

Reflections/Notes :

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 beginning AY 2014/2015. RIT Supervisor Online Co-op Evaluation System.
Key/Responsible Personnel: Data collected by NTID Center on Employment (NCE)

Findings for Co-op Work Experience [NCAD-299] - RIT Supervisor Online Co-op Evaluation System

No Findings Added

Gain entry level employment in the construction industry

▼ **Measure:** NCE - Job Placement
Program level; Indirect - Other

Details/Description: Job placement after graduation

Acceptable Benchmark: 90% of graduates who are seeking employment in the construction industry will be employed

Implementation Plan (timeline): Collection: annually during spring beginning AY 2016/2017. Survey of graduates.

Key/Responsible Personnel: Data collected by NTID Center on Employment (NCE)

Findings for NCE - Job Placement

No Findings Added

Indicate satisfaction with program and courses

▼ **Measure:** Student Satisfaction Survey - Upon Completion of Final Semester
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 beginning AY 2015/2016
Survey results summary

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Student Satisfaction Survey - Upon Completion of Final Semester

No Findings Added

Overall Recommendations

No text specified

Overall Reflection

No text specified

Last Modified: 10/29/2015 04:50:34 PM EST