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

Student Learning Outcome: 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

Collection: annually at end of fall semester beginning AY 2013/2014. Spreadsheet for data collection.

(timeline):

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 88% of students (no=17) scored 75% or better on the final practical assignment

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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: 100% of the students (n=8) scored better than 75% on their final portfolio review.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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=8) scored better than 75% on their assignments.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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

Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection.

(timeline):

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 82% of the students (no=11) scored 75% or better on the final

project.

Results: Acceptable Benchmark Achievement: Met

Recommendations:

None

Reflections/Notes:

Student Learning Outcome: 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

Collection: annually at end of fall semester beginning AY 2015/2016. Spreadsheet for data collection

(timeline):

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 73% of the students (no=11) scored a 75% or better on the final portfolio review.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: Improvement is needed on on being able to explain the content of the student portfolio.

Reflections/Notes:

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

Student Learning Outcome: 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

Collection: annually at end of spring semester beginning AY 2013/2014.

(timeline):

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: 50% of the students (no=10) scored 75% or better on their homework.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: This measure is being modified. More practice needs to be done on construction math, using

scales, and reading blueprints.

Reflections/Notes:

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2013/2014.

(timeline): 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: This measure is being modified. Students need more hands on practice on construction math,

using scales, and blueprint reading.

Recommendations: N/A

Reflections/Notes: Instructor did not provide a separate vocabulary exam.

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2013/2014

(timeline): 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: 80% of the students (n=10) scored 75% or better on the project grade.

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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

Collection: annually at end of fall semester beginning AY 2015/2016

(timeline):

Spreadsheet for data collection

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 82% of the students (n=11) scored 3 or better on the final

design project

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

 $Understand\ the\ basic\ characteristics\ of\ construction\ materials\ and\ procedures$

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2014/2015

(timeline): 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: 75% of the students (n=8) scored 75% or better on the vocabulary exam.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: Continued instruction on vocabulary.

Reflections/Notes: Instructor did not provide a separate exam for technical vocabulary. The results were

extrapolated from the final exam.

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2014/2015. (timeline): 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: 75% of students (no=8) scored 75% or better on the final exam.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: More emphasis on technical information.

Reflections/Notes: Students normally do better on this exam. This group included two students who fell short of

expectations.

Develop the skills to create and present visualization materials

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2014/2015.

(timeline): Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 100% of students (no=8) scored 75% or better on their portfolio review.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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 Collection: annually at end of fall semester beginning AY 2015/2016.

(timeline): Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 100% of the students (no=11) scored 75% or better on the final

project

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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 Collection: annually at end of fall semester beginning AY 2015/2016.

(timeline): Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 91% of the students (no=11) scored 75% or better on the project presentation.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: None

Reflections/Notes:

Student Learning Outcome: 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 Collection: annually at end of fall semester beginning AY 2015/2016.

(timeline): Spreadsheet for data collection.

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 82% of the students (no=11) scored 75% or better on the design project

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

Understand current issues affecting the construction industry

Student Learning Outcome: 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 Collection: annually at end of fall semester beginning AY 2014/2015.

(timeline): 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: 71% of the students (n=7) scored 75% or better on the exam covering building codes.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: Continue to need more practice reading technical literature

Reflections/Notes: Students continue to struggle with the language in the building codes. They need more

assistance with understanding the language and doing the calculations.

Student Learning Outcome: 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 Collection: annually at end of spring semester beginning AY 2014/2015.

(timeline): 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 students (n=8) scored 75% or better on sustainability exam

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: none

Reflections/Notes :

Develop positive skills required to be effective on the job

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

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 64% of students (n=11) scored 3 or better on their team project.

Results: Acceptable Benchmark Achievement: Not Met

Recommendations: Students need more practice on meeting their responsibilities within a team effort.

Reflections/Notes:

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

Key/Responsible Personnel: Data collected by Assessment Coordinator

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

Summary of Findings: 91% of the students (no=11) scored 75% or better on the project presentation.

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

Student Learning 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

Collection: annually at end of summer beginning AY 2014/2015.

(timeline): 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

Summary of Findings: N = 3. 100% of students received satisfactory score on co-op job.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations:
Reflections/Notes:

Student Learning Outcome: 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 Collection: annually during spring beginning AY 2016/2017.

(timeline): Survey of graduates.

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

Findings for NCE - Job Placement

Summary of Findings: N = 4. 100% of graduates gained entry level employment in the construction industry.

Results: Acceptable Benchmark Achievement: Exceeded

Recommendations: Reflections/Notes:

Student Learning Outcome: 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 Collection: annually near the end of fall semester beginning AY 2015/2016

(timeline): Survey results summary

Key/Responsible Personnel: Data collected by Assessment Coordinator

Findings for Student Satisfaction Survey - Upon Completion of Final Semester

Summary of Findings: 82% of students (no=11) rated the program and courses as satisfactory or above

Results: Acceptable Benchmark Achievement: Met

Recommendations: None

Reflections/Notes:

Overall Recommendations

No text specified

Overall Reflection

No text specified

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