

NTID

Computer Aided Drafting Technology Outcomes Assessment Plan and Report for AY 2012-2013

Program Goal: Students develop CAD job-entry skills in the Manufacturing or Architectural/Engineering/Construction (A/E/C) area. Graduates have a broad knowledge of and skills in computer aided drafting technology, applications, and procedures. Technical jobs may include CAD operator, CAD technician, drafter, detailer, or designer.

Critical Outcomes for all Students		Performance Criteria/Benchmarks		Timeline		Results	
Domain/Task/Capability	Performance Criteria/Benchmarks	Instrument/Opportunity	Assessment of Performance	Develop	Collect	Summarization of Results	Use of Results
1. Technical	Student will 1. select and use commands from 3-D drawing and editing toolbars. 2. draw a 3-D model. 3. extract from a 3-D model the following drawings: elevation, sections, floor plan 4. create/add dimensions and tolerances.	Produce a 3-D model(s) from preliminary sketches and will derive from the model(s) the orthographic views with dimensions at the end of Construction CAD III.	Given a series of sketches of a building on site 80% of students will produce a complete set of CAD drawings and related supporting technical information, scoring "acceptable/meets entry level professional standards" for all performance elements.	Winter 20052	Winter 20102	Quarter 20122 (n=5) 100% of the students met or exceeded the performance criteria/benchmarks in all four technical areas.	Met expectations and no action needed.
2. Technical	Student will 1. find technical information and other source material on the Internet and incorporate into drawings and documentation. 2. generate renderings and animations. 3. demonstrate presentation skills.	Create a 3-D model w/ technical documentation for a small office or commercial building and create presentation graphics.	Given a project and design specifications, 80% of CADT students will produce construction documents and presentation graphics scoring "acceptable/meets entry level professional standards" for all performance elements	Winter 20052	Fall 20101	Quarter 20121 (n=10) 80% of the students met or exceeded the performance criteria/benchmarks in the second and third technical areas. Only 50% of the students met or exceeded the performance criteria/benchmarks in the first technical areas.	Technical area 1 did not meet expectations. Upon review, it was determined that students need a better understanding of the technical language used in this field. As a result, there will be more emphasis placed on learning technical vocabulary earlier in the program.
3. Job Skills	Student will 1. find technical information and other source material on the Internet and incorporate into drawings and documentation. 2. generate renderings and animations. 3. demonstrate presentation skills.	Co-op Supervisor Evaluation Form	Score of 3 or higher on the RIT Supervisor On-line Co-op Evaluation System, sections "Interaction in the Work Environment," "Quality of Work," and "Communication and Literacy Skills."	Winter 20052	Summer 20104	For students in the Engineering Studies Department the mean ratings by co-op supervisors who completed the evaluation online during the four quarters 20114-20123 was as follows (N=9): 4.73 for Interaction 1 4.75 for Interaction 2 4.75 for Interaction 3 4.88 for Interaction 4	Met expectations and no action needed.

						4.69 for Interaction 5 4.75 for Quality of Work 1 4.94 for Quality of Work 2 4.88 for Communication 1 4.64 for Communication 2 4.87 for Communication 3	
4. Co-op Work Experience	Students will demonstrate technical competency on the job in CAD	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT Supervisor On-line Co-op Evaluation System, overall student job performance question.	Winter 20052	Summer 20104	For students in the Engineering Studies Department the mean ratings by co-op supervisors who completed the evaluation online during the four quarters 20114-20123 was as follows: 4.56 % for Overall Satisfaction (N=9)	Met expectations and no action needed.
5. Job Placement	Students will gain entry-level employment in A/E/C CAD field	NCE	90% of graduates will be employed in the field of A/E/C CADT.	Winter 20062	Winter 20102	For AY 2010-2011 graduates one student in Computer Aided Drafting Technology was seeking employment and was working. Five graduates were continuing in school.	Met expectations and no action needed.
6. Student Satisfaction	Graduating students will indicate satisfaction with program and courses.	Survey	80% of students will rate all aspects of the program and courses as satisfactory or above.	Winter 20052	Spring 20111	For quarter 20121 (n=8) 88% of students "agreed" or "strongly agreed" that "Overall, I am satisfied with the courses in this program." Also, 88% of students "agreed" or "strongly agreed" that "Overall, I believe that this program will help me with my career."	Met expectations and no action needed.
7. Alumni Satisfaction	Alumni will indicate satisfaction with the instruction they received at NTID/RIT.	Alumni Survey	80% of Alumni will rate their NTID/RIT experience as Good or Excellent (5-point scale) for the instruction they received.	AY 2007-2008	AY 2011-2012	N/A	N/A

Comments: