NTID
Computer Aided Drafting Technology Outcomes Assessment
Plan and Report for AY 2010-2011

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		Assessment of Outcomes		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	Quater 20102 (n=6), 100% of the students met or exceeded the perforformance criteria/benchmarks in all four technical areas.	Met expectations and currently reviewing skill sets to determine what needs modifications (or improvements).
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	Quater 20101 (n=12), 83% of the students met or exceeded the performance criteria/benchmarks in the second technical area. 67% of the students met or exceeded the performance criteria/benchmarks in the first and third technical areas.	Met expectations for half the benchmarks. Currently reviewing potential modifications to improve benchmarks that fell short.
3. Job Skills	Student will 1. find technical information and other source material on the Internet and incorporate	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	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	Met expectations and no action needed.

	into drawings and documentation. 2. generate renderings and animations. 3. demonstrate presentation skills.		Environment," "Quality of Work," and "Communication and Literacy Skills."			four quarters 20094-20103 was as follows: 4.00 (N=16) for Interaction 1 3.94 (N=16) for Interaction 2 3.81 (N=16) for Interaction 3 3.94 (N=16) for Interaction 4 3.87 (N=16) for Interaction 5 4.25 (N=16) for Quality of Work 1 4.12 (N=16) for Quality of Work 2 3.67 (N=16) for Communication 1 3.64 (N=16) for Communication 2 3.93 (N=16) 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 20094-20103 was as follows: 3.88 (N=16) for Overall Satisfaction	Met expectations and no action needed.
5. Job Placement	Students will gain entry-level	NCE	90% of graduates will be employed in the field of	Winter 20062	Winter 20102	For AY 2008-2009 N=2; 50% of students in	Met expectations and no action

	employment in A/E/C CAD field		A/E/C CADT.			Computer Aided Drafting Technology who were seeking employed were working. An additional 7 students were continuing in school, 1 was not looking for work and the status of 1 was unknown.	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	Cummulative results for the previous two years: N = 17 87% of students "agreed" or "strongly agreed" that "Overall, I am satisfied with the courses in this program." 87% 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	For Engineering Studies Department AOS & AAS alumni who graduated from 2005-2009 and responded to the 2010 alumni survey, N=11; 90.9% indicated satisfaction.	Met expectations and will continue to seek ways to improve the overall satisfactory rating.

Comments:

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