## 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.

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<th>Critical Outcomes for all Students</th>
<th>Performance Criteria/Benchmarks</th>
<th>Timeline</th>
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<td><strong>Domain/Task/Capability</strong></td>
<td><strong>Performance Criteria/Benchmarks</strong></td>
<td><strong>Instrument/Opportunity</strong></td>
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<tr>
<td>1. Technical</td>
<td>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.</td>
<td>Produce a 3-D model(s) from preliminary sketches and will derive from the model(s) the orthogonal views with dimensions at the end of Construction CAD III.</td>
<td>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 &quot;acceptable/meets entry level professional standards&quot; for all performance elements.</td>
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<td>2. Technical</td>
<td>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.</td>
<td>Create a 3-D model with technical documentation for a small office or commercial building and create presentation graphics.</td>
<td>Given a project and design specifications, 80% of CADT students will produce construction documents and presentation graphics scoring &quot;acceptable/meets entry level professional standards&quot; for all performance elements.</td>
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<tr>
<td>3. Job Skills</td>
<td>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.</td>
<td>Co-op Supervisor Evaluation Form</td>
<td>Score of 3 or higher on the RIT Supervisor On-line Co-op Evaluation System, sections &quot;Interaction in the Work Environment,&quot; &quot;Quality of Work,&quot; and &quot;Communication and Literacy Skills.&quot;</td>
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4. Co-op Work Experience

Students will demonstrate technical competency on the job in CAD.

- Co-op Work Experience
- 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 2011-2012 was as follows: 4.56 % for Overall Satisfaction (N=9).

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 200102

For AY 2010-2011 graduates one student in Computer Aided Drafting Technology was seeking employment and was working. Five graduates were continuing in school.

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."

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

Met expectations and no action needed.