**NTID**  
**Computer Aided Drafting Technology Outcomes Assessment**  
**Plan and Report for AY 2008-2009**

**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.

<table>
<thead>
<tr>
<th>Critical Outcomes for all Students</th>
<th>Assessment of Outcomes</th>
<th>Timeline</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain/Task/Capability</td>
<td>Performance Criteria/</td>
<td>Instrument/ Opportunity</td>
<td>Assessment of Performance</td>
</tr>
<tr>
<td>1. Technical</td>
<td>Benchmarks</td>
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<tr>
<td>Student will</td>
<td></td>
<td>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.</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 “acceptable/meets entry level professional standards” for all performance elements.</td>
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<tr>
<td>2. Technical</td>
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<td>Create a 3-D model w/ 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 “acceptable/meets entry level professional standards” for all performance elements</td>
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<tr>
<td>3. Job Skills</td>
<td>Co-op Supervisor</td>
<td>Score of 3 or higher on the RIT Supervisor Online Co-op Evaluation System, sections “Interaction in the Work”</td>
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</tbody>
</table>
### 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 Online Co-op Evaluation System, overall student job performance question.**

**Winter 20052, Summer 20084**

For students in the Engineering Studies Department, the mean rating by co-op supervisors who completed the evaluation online was 4.33 (N=15) for Overall Satisfaction during the four quarters 20074-20083.

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 20082**

For AY 2006-2007 n=3; 100% of students in seeking employment were working.

Met expectations and no action needed.

### 6. Student Satisfaction

Graduating students will

**Survey**

80% of students will rate all

**Winter 20052, Spring 20081**

For quarter 20081 (n=11), 91% of

Met expectations
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 2007-2008

N/A

N/A

Comments:
(Summary/Reflections on progress made since AY 2006-2007 Middle States Report)

The CADT program was part of a significant department-wide curriculum revision that was implemented AY 2006. As part of this effort, the CADT program developed an Outcomes Assessment data collection plan, and the program has completed its second year of Outcomes Assessment data collection.

While this assessment process still needs more time to collect a sufficient amount of data, the CADT program has found some areas in the curriculum that need improvement as a result of the assessment.

The one technical area that shows up as problematic for students is the ability to research, interpret and incorporate technical information into their projects. This requires critical thinking which is a skill with which many students seem to struggle. The program rescheduled four of its technical courses so to incorporate this skill earlier in the program. This will allow the students more time to develop this skill.

The CADT program will continue to collect data and to make determinations based on the data.

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Rev: 07/22/2009