

NTID
Computer Aided Drafting Technology Outcomes Assessment
Plan and Report for AY 2006-2007 Middle States

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 20062 | 1. Has data collected via prior curriculum (since AY 2004) for Construction CAD. 2. Will proceed as it is. | Course contents have been modified and upgraded. |
| 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 20071 | Did administer a pilot activity for Presentation Graphics via new A/E/C curriculum during AY 20061, discussions are underway to determine results. | NA |
| 3. Job Skills | Student will 1. find technical information | Co-op Supervisor Evaluation Form | Score of 3 or higher on the RIT Supervisor On-line Co-op | Winter 20052 | Summer 20064 | | |

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| | and other source material on the Internet and incorporate into drawings and documentation. 2. generate renderings and animations. 3. demonstrate presentation skills. | | Evaluation System, sections “Interaction in the Work Environment,” “Quality of Work,” and “Communication and Literacy Skills.” | | | | |
| 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, sections “Problem Solving” and “Technical Skills.” | Winter 20052 | Summer 20064 | | |
| 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 20072 | | |
| 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 20073 | | |
| Comments: | | | | | | | |
| /ssl Rev: 01/04/2007 | | | | | | | |