

Option 1

Program Level Outcomes Assessment Plan

Program Name/College: Computer Aided Drafting Technology (CADT) / National Technical Institute for the Deaf (NTID)

College Contact for Program Assessment: James Fugate (Program Assessment Coordinator) & Dino Laury (Department Chair)

Program Goals	Student Learning Outcomes	Academic Program Profile	Data Source/Measure Curriculum Mapping	Benchmark	Timeline	Data Analysis Key Findings	Use of Results Action Items and Dissemination
Develop the ability to produce accurate 2-D drawings and Building Information Modeling (BIM) projects.	Use CAD to produce 2D technical drawings	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Engineering Graphics NCAD-150 Technical drawing practical Practical grade	80% of students will score 75% or better on final practical grade	Collection: annually at end of fall semester beginning AY 2013/2014 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Extract and modify orthographic technical drawings from a BIM model	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Construction CAD II NCAD-220 Final portfolio review of construction documents Portfolio grade	80% of students will score 75% or better on final portfolio review grade	Collection: annually at end of fall semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Generate reports on information contained in a BIM model	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Construction CAD II NCAD-220 Course embedded assignments Rubric scale 1-5	80% of students will score 3 or more on the rubric scale 1-5	Collection: annually at end of fall semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Create a BIM project based on preliminary information	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Advanced Construction CAD NCAD-240 Course embedded project Project grade	80% of students will score 75% or better on final project grade	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Use a BIM project as a basis to produce detailed sections and other details	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Advanced Construction CAD NCAD-240 Final portfolio review of construction documents Portfolio grade	80% of students will score 75% or better on final portfolio review grade	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports

Develop the skills to acquire, record and analyze information derived from field measurements, existing drawings and other technical documents	Create and interpret dimensions for technical drawings	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Data Collection and Analysis NCAD-108 Final dimensioning practical Practical grade	80% of students will score 75% or better on final dimensioning practical grade	Collection: annually at end of spring semester beginning AY 2013/2014 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Define appropriate technical vocabulary as used by the construction industry	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Data Collection and Analysis NCAD-108 Final vocabulary exam Exam grade	80% of students will score 75% or better on final vocabulary exam grade	Collection: annually at end of spring semester beginning AY 2013/2014 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Field measure and input existing space conditions into CAD	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Data Collection and Analysis NCAD-108 Course project Project grade	80% of students will score 75% or better on course project grade.	Collection: annually at end of spring semester beginning AY 2013/2014 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Research technical information and incorporate into drawings and documentation	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Advanced Construction CAD NCAD-240 Design project Rubric scale: 1-5	80% of students will score 3 or above on incorporating technical information into design project	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
Understand the basic characteristics of construction materials and procedures	Identify various construction materials using correct terminology	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Construction Materials and Methods II, NCAD-265 Terminology exam Exam grade	80% of students will score 75% or better on terminology exam	Collection: annually at end of spring semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Identify characteristics of common construction materials	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Construction Materials and Methods II, NCAD-265 Final Exam Exam grade	80% of students will score 75% or better on course final exam	Collection: annually at end of spring semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports

Develop the skills to create and present visualization materials	Develop and maintain a portfolio of student projects in both hard copy and electronic form	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Construction CAD III, NCAD-230 Student Portfolio Portfolio review grade	80% of students will score 75% or better on portfolio review	Collection: annually at end of spring semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Generate renderings and animations from CAD and BIM projects	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Presentation Graphics, NCAD-250 Final project Final project grade	80% of students will score 75% or better on final project grade	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Effectively prepare and present projects utilizing presentation graphics	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Presentation Graphics, NCAD-250 Final project presentation Final project presentation grade	80% of students will score 75% or better on final project presentation grade	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Demonstrate creative skills on a design project	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Advanced Construction CAD, NCAD-240 Design project Design project grade	80% of students will score 75% or better on design project grade	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
Understand current issues affecting the construction industry	Explain the purpose and role of building codes in the construction industry	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Principles of Structural Systems, NCAD-275 Presentation Graphics, NCAD-250 Building codes exam Exam grade	80% of students will score 75% or better on building codes exam	Collection: annually at end of fall semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Identify issues related to sustainability in the construction industry	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	MEP Systems, NCAD-285 Sustainability exam Exam grade	80% of students will score 75% or better on sustainability exam	Collection: annually at end of spring semester beginning AY 2014/2015 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports

Develop positive skills required to be effective on the job	Engage productively in a collaborative team project	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Advanced Construction CAD, NCAD-240 Team project Self evaluation, peer review and teacher evaluation using rubric scale: 1-5	80% of students will score 3 or more on the rubric scale 1-5	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Accurately and clearly present technical information to an audience of peers	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Presentation Graphics, NCAD-250 Final project presentation Self evaluation, peer review and teacher evaluation using rubric scale: 1-5	80% of students will score 3 or more on the rubric scale 1-5	Collection: annually at end of fall semester beginning AY 2015/2016 Spreadsheet for data collection	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Apply technical knowledge and skills on a co-op work experience	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input checked="" type="checkbox"/> Creative/Innovative Thinking	Co-op Work Experience, NCAD-299 Performance on the job RIT Supervisor Online Co-op Evaluation System	80% of students will meet or exceed overall satisfactory score on co-op job	Collection: annually at end of summer beginning AY 2014/2015 RIT Supervisor Online Co-op Evaluation System	Data collected by NTID Center on Employment (NCE)	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Gain entry level employment in the construction industry	<input type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	After graduation Job placement NCE	90% of graduates who are seeking employment in the construction industry will be employed	Collection: annually during spring beginning AY 2016/2017 Survey of graduates	Data collected by NTID Center on Employment (NCE)	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Indicate satisfaction with program and courses	<input type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Upon completion of final semester Student Satisfaction Survey Survey results	80% of students will rate all aspects of the program and courses as satisfactory or above	Collection: annually near the end of fall semester beginning AY 2015/2016 Survey results summary	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports