



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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	□ Critical Thinking □ Ethical Reasoning □ Integrative Literacies □ Global Interconnectedness □ 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	□ Critical Thinking □ Ethical Reasoning □ Integrative Literacies □ Global Interconnectedness □ 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	☑ Critical Thinking ☐ Ethical Reasoning ☑ Integrative Literacies ☐ Global Interconnectedness ☑ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	□ Critical Thinking □ Ethical Reasoning □ Integrative Literacies □ Global Interconnectedness □ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	□ Critical Thinking □ Ethical Reasoning □ Integrative Literacies □ Global Interconnectedness □ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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

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% of students	Collection: annually	Data collected by	S

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Develop the skills	Develop and	□ Critical Thinking □ Ethical Reasoning	Construction CAD	80% of students will score 75% or	Collection: annually at end of spring	Data collected by Assessment	program faculty,
to create and	maintain a	☐ Ethical Reasoning ☐ Integrative Literacies	III, NCAD-230	better on portfolio	semester beginning	Coordinator	annual college
present	portfolio of	Global Interconnectedness	Student Portfolio	review	AY 2014/2015		summary report,
visualization	student projects	☑ Creative/Innovative					NTID Annual
materials	in both hard	Thinking	Portfolio review		Spreadsheet for		Report, and RIT
materials	copy and		grade		data collection		requested reports
	electronic form						
		☐ Critical Thinking	Presentation	80% of students	Collection: annually	Data collected by	Shared with
	Generate	Ethical Reasoning	Graphics, NCAD-	will score 75% or	at end of fall	Assessment	program faculty,
	renderings and	☐ Integrative Literacies	250	better on final	semester beginning	Coordinator	annual college
	animations from	Global Interconnectedness		project grade	AY 2015/2016	•	summary report,
	CAD and BIM	☐ Creative/Innovative	Final project				NTID Annual
	projects	Thinking		,	Spreadsheet for		Report, and RIT
	Cff	M Critical Thinking	Final project grade Presentation	80% of students	data collection Collection: annually	Data collected by	requested reports Shared with
	Effectively	☐ Critical Thinking☐ Ethical Reasoning	Graphics, NCAD-	will score 75% or	at end of fall	Assessment	program faculty,
	prepare and	☐ Edition Reasoning ☐ Integrative Literacies	250	better on final	semester beginning	Coordinator	annual college
	present projects	Global Interconnectedness		project	AY 2015/2016		summary report,
	utilizing	☐ Creative/Innovative	Final project	presentation			NTID Annual
	presentation	Thinking	presentation	grade	Spreadsheet for		Report, and RIT
	graphics		[[[]]]] [data collection		requested reports
	g p		Final project presentation grade				
	Demonstrate	☑ Critical Thinking	Advanced	80% of students	Collection: annually	Data collected by	Shared with
	creative skills on	☐ Ethical Reasoning	Construction CAD,	will score 75% or	at end of fall	Assessment	program faculty,
	1	☐ Integrative Literacies	NCAD-240	better on design	semester beginning	Coordinator	annual college
	a design project	☐ Global Interconnectedness		project grade	AY 2015/2016		summary report,
		☐ Creative/Innovative Thinking	Design project		Spreadsheet for		NTID Annual Report, and RIT
		, runking	Design project grade		data collection		requested reports
Understand	Explain the	☑ Critical Thinking	Principles of	80% of students	Collection: annually	Data collected by	Shared with
current issues	purpose and	■ Ethical Reasoning	Structural Systems,	will score 75% or	at end of fall	Assessment	program faculty,
	1''	☐ Integrative Literacies	NCAD-275	better on building	semester beginning	Coordinator	annual college
affecting the	role of building	☐ Global Interconnectedness	Presentation	codes exam	AY 2014/2015		summary report,
construction	codes in the	Creative/Innovative	Graphics, NCAD-		0		NTID Annual
industry	construction	Thinking	250		Spreadsheet for data collection		Report, and RIT requested reports
	industry	İ	Building codes exam		data collection		requested reports
]			
			Exam grade				
	Identify issues	☑ Critical Thinking	MEP Systems,	80% of students	Collection: annually	Data collected by	Shared with
	related to	 ☑ Ethical Reasoning ☑ Integrative Literacies 	NCAD-285	will score 75% or	at end of spring	Assessment	program faculty,
	sustainability in	☐ Integrative Literacies ☐ ☐ Global Interconnectedness	Sustainability exam	better on sustainability	semester beginning AY 2014/2015	Coordinator	annual college summary report,
	the construction	☐ Global Interconnectedness ☐ ☐ Creative/Innovative	Costonionintà exam	exam	A1 201412010		NTID Annual
	industry	Thinking	Exam grade	- CAUTH	Spreadsheet for		Report, and RIT
	I III USEI Y		J		data collection		requested reports

Develop positive skills required to be effective on the job	Engage productively in a collaborative team project	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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		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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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	☐ Critical Thinking ☐ Ethical Reasoning ☐ Integrative Literacies ☐ Global Interconnectedness ☐ 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