

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Drafting I
Course Number	11740
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Construction Management (CTEPS) Engineering (CTEPS)
Date of district Course Revision	November 2014

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	Y
--------------------------------	---

Occupational Standards

Source of Occupational Standards	CADD National Skill Standards
Names/Numbers of Occupational Standards	AutoCAD 2010, 2010-C

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	This course covers the principles of engineering design and computer-assisted drawing. It is recommended for students desiring to go on to post-secondary school, technical school related to engineering, architecture, design and manufacturing.
Instructional Topic Headings (please separate each heading by a semi-colon)	Introduction to basic Drafting and CAD tools and techniques; Measurement and scales; Line usage; Views and planes; Dimension techniques; Pictorial view; Careers in drafting and design will be explored.

Summative Assessments and Standards

Technical Skills Assessment (TSA)	Y
Course addresses:	
New Alaska ELA and Math Standards	Y
Alaska Cultural Standards	Y
All Aspects of Industry (AAI)	Y
Core Technical Standards	Y
Employability Standards	Y

Employability Standards

Source of Employability Standards	State of Alaska
-----------------------------------	-----------------

Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	N
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

DISTRICT NAME: KPBSD

Additional CTE Course Information

Author	
Course developed by	Kenai Peninsula Borough School District
Course adapted from	Previous version
Date of previous course revision	May 2013
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
1. Understand and utilize Windows operating system.	CADD National Skill Standards: 2.1.1-2.3.1				B-4	A-2, A-3	7, 5	Lab Assignments
2. Utilize CADD program(s) and its tools such as draw and edit functions.	CADD National Skill Standards: 1.1.1-1.4.0	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1 G-CO.12	B-4	A-2	7, 5	Lab Assignments
3. Utilize CADD program(s) and its tools such as line types, line weights, and layers.	CADD National Skill Standards: 1.1.4, 3.3.2,	AC-6	R3 9-10,11-12 R4 9-10,11-12	N-Q.1,N-Q.2,G-CO.1	B-4	A-2	7, 5	Lab Assignments

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
	3.3.7,		W 6 9-10,11-12					
4. Demonstrate orthographic projection techniques and principals as they apply to multi-view drawings.	CADD National Skill Standards: 1.2.1,1.2.2, 1.2.3	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1, G-GMD.4, G-CO.12, N-Q.1-3	B-4	A-2	7, 5	Lab Assignments
5. Determine and utilize appropriate symbols, text commands, and labeling techniques.	CADD National Skill Standards: 1.1.3, 1.1.7,	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	N-Q.1-3, G-CO.1	B-4	A-2	7, 5	Lab Assignments
6. Determine and demonstrate the most appropriate method of dimensioning objects.	CADD National Skill Standards: 1.1.6, 1.4.1, 1.4.3, 1.4.5, 3.5	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	N-Q.1-3, G-CO.1	B-4	A-2	7, 5	Lab Assignments
7. Identify and demonstrate the following set-up commands: Snap, Grid, Ortho, Polar, and Object snap.	CADD National Skill Standards: 3.3.1, 3.1.2,	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1, G-GPE.7	B-4	A-2	7, 5	Lab Assignments
8. Identify and demonstrate the basic display commands: Zoom (extents, all, limits) Pan, and Drawing Limits.	CADD National Skill Standards: 3.3.3,	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1, N-Q.1, G-GPE.7	B-4	A-2	7, 5	Lab Assignments

DISTRICT NAME: KPBSD

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
9. Demonstrate various isometric techniques and drawings.	CADD National Skill Standards: 3.1.3, 1.3.1,	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1, N-Q.1, G-GMO.4	B-4	A-2	7, 5	Lab Assignments
10. Demonstrate various pictorial drawing methods.	CADD National Skill Standards: 1.3.1, 1.3.2, 1.3.3	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-GPE.7, G-CO.1	B-4	A-2	7, 5	Lab Assignments
11. Given an object determine the appropriate views it creates.	CADD National Skill Standards: 1.2.1, 1.2.2, 1.2.3	AC-6	R3 9-10,11-12 R4 9-10,11-12 W 6 9-10,11-12	G-CO.1, G-MG.1, G-GPE.7	B-4	A-2	7, 5	Lab Assignments
12. Explore and identify careers related to design and drafting.	SkillsUSA	AC-7	W1-a, b, c W2-a, b, d	G-CO.1	D-6	B-2, B-4, B-5	6, 7	Lab Assignments

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Autodesk Certification website: <http://usa.autodesk.com/adsk/servlet/item?siteID=123112&id=17208050>

AutoCad 2012 Autodesk Certification Exam Preparation Roadmap:

http://images.autodesk.com/adsk/files/autocad_2012_certification_exam_preparation_roadmap_lores.pdf

DISTRICT NAME: KPBSD

CADD National Skill Standards:

National Occupational Skill Standards for Computer Aided Drafting and Design (CADD). Washington, DC: Foundations for Industrial Modernization, 1994.

ICBO: Uniform Building Code:

<https://archive.org/stream/gov.law.icbo.building.1991/icbo.building.1991#page/n0/mode/2up>

<http://SkillsUSA.org>