

Course Name: Drafting	District Name: Ketchikan Gateway School District
Adapted from: _____	Developed by: Kurt Lindemann
Date: April 19, 2005	

EED USE ONLY	Date: _____
Approval Status: _____	

Prerequisite Course(s): none
High School Credit =

This course will be offered: every year? OR every other year?
Career Cluster Area: Architecture & Construction

Eligibility for Nationally Recognized Skill Certificate(s)/State License? No OR Yes
 If Yes, identify Certificate(s): NCCER Certificates

Tech Prep: No OR Yes
 If Yes, (1) List Postsecondary Institution _____
 (2) Name of Course _____ And the number of postsecondary credits

Is this course brokered through another institution or agency? No OR Yes
 If Yes list institution/agency: _____

Course Description (a brief narrative description – perhaps from the school’s registration materials):

Drafting 1 gives students the opportunity to gain basic skills and technical knowledge as they make drawings with drafting instruments and CAD. The class covers the different areas within mechanical drawing and also gives the student an introduction to architectural drawing. This class is valuable for potential architects, engineers, contractors and tradesman.

Content Headings/Topics:

Drafting in the Industry	Sketching	Drafting Tools and Lettering	CAD
Geometric figures and constructions	Multi view drawing	Dimensioning	Sectional Views
Pictorial drawing	Architectural drawing		

Source of Occupational Skills Standards

Source/Organization/Agency	Acronym	Website or location of Information	Section, Chapters referenced in Performance Standards etc
National Center for Construction Education & Research	NCCER	www.nccer.org	Entire NCCER manual

Student Performance Standards (Learner Outcomes)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, Science Performance Standards	Alaska Content Standards	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Assessments
1. Students will be able to understand how drafting is used in industry and related career pathways.		M: E; W: A,D R: B,D,E	A,B,D,E	A,B	A,B,E	6,9	Written
2. The students will be able to demonstrate proper	00105-04 1, 3	M: A,B,D,E	A,B,C,D	A	A	5	Written

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sketching techniques and understand key concepts		W: A,D R: B,E					Performance
3. The students will be able to understand and use the drafting tools and lettering techniques necessary to produce a finished drawing	00105-4, 2	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	5	Performance; written
4. The students will be able to recognize and draw geometric shapes	00102-04,9	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	4,5	Written
5. The students will be able to understand and draw a finished drawing using CAD	00105-04,2	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	4.5	Written
6. The student will understand orthographic projection through drawings	00102-04, 9 00105-04 1,2,4	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	1,2,4	Written
7. The student will properly dimension orthographic drawings	00105-04 1,2,4 00102-04 1-6, 8,9	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	1,4,5	Written
8. The student will understand and draw sectional drawings	00102-04 1-6; 8,9	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	4,5	Written
9. The student will understand and draw pictorial drawings(isometric, oblique and perspective).	00102-04 1,2,3,4,9 00105-04 1,2,3,4	M: A,B,C,D,E W: A R: B,E	A,B,C,D	A,B	A	4,5	Written
10. the student will understand and draw architectural drawings (floor plans, two elevations, site plan, perspective and sectional)	00105-04 1,2,3,4	M: A,B,C,D,E W: A,D R: B,E	A,B,C,D, E	A,B	A,B	1,2,3,4,5	Written

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Major Instructional Resources: (websites, textbooks, essential equipment, reference materials, supplies)

Curriculum Introductory Craft Skills; NCCER, 2004

www.nccer.org

drafting tables and table equipment

Auto CAD site licenses and computers

Drafting paper and essential lettering utensils