

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Architectural Drafting 1
Course Number	86050
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Architect, Carpenter,
Date of district Course Revision	September 2014

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	SkillsUSA
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Occupational Standards

Source of Occupational Standards	United States National CAD Standards Vs. #6 (NCS) / SkillsUSA
Names/Numbers of Occupational Standards	Architectural Drafting (AD) 1 - 12

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Architectural Drafting 1 provides the basic information necessary for planning single level residential dwellings. It presents basic instruction in preparing architectural working drawings using computer-based methods. It is intended to help develop the necessary technical skills to communicate architectural ideas in an understandable, efficient, and accurate manner. Students who are interested in careers in construction; for example, architects, computer-aided drafters, surveyors, planners and designers would benefit from this course.
Instructional Topic Headings (please separate each heading by a semi-colon)	Primary Design and Planning; Area Planning; Basic Residential Architectural Practices and Techniques; Technical and Specialty Architectural Plans; Architectural Support Services; School to Work Internships; Participation in Professional Organizations A.I.A. (American Institute of Architects); Encourage Career and Technical Student Organization (CTSO) Involvement

Summative Assessments and Standards

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

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	Yes – With combo of Arc Drafting 2
Date of Current Agreement	12/2014

DISTRICT NAME: Mat-Su Borough School District

Postsecondary Institution Name	University of Alaska – Anchorage
Postsecondary Course Name	Fundamentals of CAD for Building Construction
Postsecondary Course Number	AET 101
# of Postsecondary Credits	4

Additional CTE Course Information

Author	
Course developed by	Ray Jensen, Tom Lord, Paul Moma, Revised by: Justin Aulie, Bryan Kirby, Chris Taylor, Brad Drake, Bryan Kirby, Ray Jensen
Course adapted from	Architectural Drafting 1
Date of previous course revision	June 2006
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	N

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
Identify fundamentals of residential architectural design and planning.	NCS 4.3.2.4 AD 2.3; AD 2.6	AC-DES 6	RST 9-12.2; RST 9-12.3	GCO 1,2,5,12; NQ 1,2,3	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Recognize design factors affecting residential construction and planning.	AD 3.5; AD 2.6	AC 2, 6 AC-DES 6, 7	RST 9-12.2; RST 9-12.3	A-REI-1; NQ 1-3	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Identify differing room design criteria and use this information to reproduce a functional residential floor plan.	AD 3.5	AC 2 AC-DES 6	RST 9-12.2; RST 9-12.3	A-REI-1; NQ 1-3	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Recognize drafting industry standard practices and procedures in floor plan development.	NCS 4.3.2.4 AD 3.5	AC 2 AC-DES 6	RST 9-12.2; RST 9-12.3	A-REI-1; NQ 1-3	B 1, 4	A2	Planning Mgmt Finance Technical	SkillsUSA AD Assessment

DISTRICT NAME: Mat-Su Borough School District

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
							Skills Technology	
Duplicate elevation and floor plans that meet architectural graphic standards.	NCS 4.3.2.1 NCS 4.3.3 AD 2.3; AD 3.5	AC-DES 6	RST 9- 12.3	GCO 1,2; NQ 1-3	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Reproduce dimensions on a floor plan utilizing Architectural Tolerance Methods.	NCS 4.2.8 AD 2.5.8; AD 2.4	AC 2, 6 AC-DES 6, 7	RST 9- 12.3; RST 9- 12.4; L 9-12.2 a, b; L 11- 12.2 a, b	NQ 1-3; GCD 12,13	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Discover standard building codes as they relate to residential construction.	NCS 8.0 AD 1.1; AD 2.4	AC 2, 3 AC-DES 6	RST 9- 12.4	NQ 1-3; GCO 1,4	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Identify careers in architectural drafting.	EAP 1.0; EAP 1.2; EAP 2.0	AC 5, 7	L 11-12.2 a, b	GCO-1	B 1, 4	A2	Planning Labor Community Wk Habits	SkillsUSA AD Assessment
Understand periods of historical and modern architecture design.	AD 1.1; AD 2.6	AC 4, 5	WHST 9- 12.9		B 1, 4	A2,A5	Technical Skills	SkillsUSA AD Assessment
Follow professional ethics including software licensing, copyright and intellectual property laws in producing and monitoring web pages and sites.	NCS 0.2	AC 3, 5	WHST 9- 12.8		C 4	A 1, 2, 6	Wk Habits Mgmt	SkillsUSA AD Assessment
Discover CTSO opportunities relating to Architectural Drafting.	EAP 1,2,3	AC 2, 5, 7	L 9-12.6; SL 9-12.1 a-d	GCO 1,2,4,5	C 4	A 2, 5	Technical Skills	

Instructional Resources

DISTRICT NAME: Mat-Su Borough School District

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

Books and Resources:

Architecture, French and Swenson;

Architecture Residential Drawing and Design, Clois Kicklighter, Thomas, Scott , Goodheart-Willcox