

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Architectural Drafting 2
Course Number	86060
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 Version #6 (NCS) SkillsUSA
Names/Numbers of Occupational Standards	CAD Standards Version#6 (NCS) / Architectural Drafting (AD) 1 - 12

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Architectural Drafting 2 provides the basic information necessary for planning multi-level single family dwellings. It presents advanced instruction in preparing architectural working drawings, sites, pictorials, elevations and floor plans 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)	Design and Planning Multi-level Single Family Dwellings; Advanced Residential Architectural Practices and Techniques; Technical and Specialty Architectural Plans; Loads and Structure; 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 Tech Drafting 1
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DISTRICT NAME: Mat-Su Borough School District

Date of Current Agreement	12/2014
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

DISTRICT NAME: Mat-Su Borough School District

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 2
Date of previous course revision	June 2006
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
Review Environmental Design Factors affecting residential construction and planning.	AD 2.3; AD 2.6; AD 3.0	AC 2, 6 AC-DES 6, 7	RST 9-12.3; RST 9-12.2	AREI-1; NQ 1,2,3; GCO 1,5,12	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Reproduce a functional multi-level residential floor plan.	NCS 4.3.2.4&5 AD 3.5	AC 2 AC-DES 6	RST 9-12.3; RST 9-12.2	AREI-1; NQ 1,2,3	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Employ 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 Skills Technology	SkillsUSA AD Assessment
Duplicate pictorial, elevation, sectional views, and floor plans that meet architectural graphic standards.	NCS 4.3.3	AC-DES 6	RST 9-12.3	GCO 1,2; NQ 1-3	B 1, 4	A2	Planning Mgmt Technical	SkillsUSA AD Assessment

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	NCS 4.3.2.1 NCS 4.3.9 AD 2.3; AD 3.5						Skills Technology	
Recognize basic schedules and specifications that meet architectural industry standards.	NCS 3.1-3.5 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; GCO 1,4	B 1, 4	A2	Planning Mgmt Technical Skills Technology	SkillsUSA AD Assessment
Incorporate building codes as they relate to basic 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
Develop Layout Templates for use with Various Drawing activities	NCS 2.1- 2.3.2 AD 1.0	AD, 2,6 AD-DES 6,7	RST 9- 10;7,10	GCO 12 NQ2,3 SID 2,3	B1, 4	A2	Planning Mgmt Technical Skills Technology	Skills USA TD Assessment
Explore 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
Follow professional ethics including software licensing, copyright and intellectual property laws in producing and monitoring web pages and sites.		AC 3, 5	WHST 9- 12.8		C 4	A 1, 2, 6	Wk Habits Mgmt	SkillsUSA AD Assessment
Participate in integrated CTSO classroom activities.	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	

DISTRICT NAME: Mat-Su Borough School District

Instructional Resources

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