

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Natural Resources Technology I
Course Number	11825
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Marine Technology, Intro. To Nautical Skills, Natural Resources II
Date of district Course Revision	Oct. 2013
Career & Technical Student Organization (CTSO)	
CTSO embedded in this sequence	FFA, SkillsUSA
Occupational Standards	
Source of Occupational Standards	National Council for Agricultural Education
Names/Numbers of Occupational Standards	National Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	This course provides an introduction to the areas of wildlife, animal husbandry, land management, floriculture, production agriculture, and horticulture. Students are also introduced to careers in agriculture and natural resources management.
Instructional Topic Headings (please separate each heading by a semi-colon)	Local, regional, and global natural resources , managing agriculture, managing soil resources, wildlife, Safety practices, Tools, equipment, and technology, Careers in natural resource management.
Summative Assessments and Standards	
Technical Skills Assessment (TSA)	N
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

DISTRICT NAME: Kenai Peninsula Borough School District

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

Additional CTE Course Information

Author	
Course developed by	Francie Roberts and Dan Bohrnsen
Course adapted from	KPBSD
Date of previous course revision	2010
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
Understand basic horticulture principles including plant taxonomy, basic growth requirements, propagation, soil requirements and production.	PS.01.01 PS.01.02 PS.02.02 PS.03.05	AG-PL.1 AG-PL.2 AG.6	RIK.7.9-10	G-GMD.1 G-GMD.3	C1, D6, E5		Planning	Lab Teacher Observation
Demonstrate an understanding of greenhouse structures and environments.	PS.02.01	AG-PL.1 AG.6	G-MG.1 G-MG.2 G-MG.3	F.IF.4	A4		Planning	Lab Teacher Observation
Apply principals of animal husbandry to ensure the proper development of animals.	AS.04.01 AS.06.01 AS.07.01	AG-ANI.2 AG.6						LabTeacher Observation
Identify, care for and propagate various houseplants,	PS.02.03 PS.03.01	AG-PL.3 AG-PL.2	W.TT.1a.		A4			Lab

DISTRICT NAME: Kenai Peninsula 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
landscape shrubs, trees and flowers.		AG.6	9-10					Teacher Observation
Understand management of pests and diseases of agricultural crops and greenhouse crops.	PS.03.02 PS.03.03 CS.03.02	AG-PL.1 AG.6		N-Q.1 N-Q.2 N-Q.3				Lab Teacher Observation
Identify and operate a variety of tools, equipment and technology used in the fields of natural resources and agriculture.	PST.01.03	AG.PST.1			B4		Technology	Lab Teacher Observation
Locate and identify local, regional and global natural resources.	NRS.01.02 NRS.02.01	AG-NR.1 AG.1 AG.4	R.Ki.1.9-10		A7, E2			Lab Teacher Observation
Demonstrate critical thinking, problem-solving and conflict resolution strategies for use of natural resources and related issues.	PS.03.04 CS.02.04	AG.1 AG.4 AG.6 AG-ENV.2	W.TT.1.9-10	N-Q.1 N-Q.2 N-Q.3			Planning	Lab Teacher Observation
Increase an awareness of careers in natural resources including horticulture, agriculture, forestry and marine industries.	CS.01.01C S.02.03 CS.03.01	AG.1 AG.5	R.Ki.1.9-10			A3, A5, B2, B4	Community Labor	Lab Teacher Observation

DISTRICT NAME: Kenai Peninsula Borough School District

Encourage participation in CTSO's, including FFA and SkillsUSA.	CS.01.01 CS.01.02 CS.01.03 CS.01.04 CS.01.05 CS.02.02 CS.02.03 CS.03.01	AG.1 AG.5 AG.6 AG-BIZ.4	R.Ki.1.9-10 W.TT.1.9-10 W.TT.1a.9-10 G-MG.1 G-MG.2 G-MG.3	N-Q.1 N-Q.2 N-Q.3 G-GMD.1 G-GMD.3 F.IF.4			Technical Skills	FFA and SKILLS USA event participation
Demonstrate an understanding of hazardous materials and safety issues.	NRS.02.01 CS.08.01	AG.3 AG-ENV.5				A2, A6	Technical Skills	Lab Teacher Observation

Instructional Resources

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

Introductory Horticulture by Reiley & Shry, 2010, 8th Edition

Living in the Environment by Miller/Spoolman, 2011

FFA: <http://www.ffa.org>

SkillsUSA: <Http://www.skills.org>

4H: <http://www.4-h.org>

Local Horticultural experts (local greenhouse businesses, garden clubs, Biosphere II, People's Garden Program)

Local State and Federal Agencies (NRCS, USFWS, NOAA)