

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Natural Resources Technology II
Course Number	II826
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 I
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 forestry, land management, marine science, aquaculture, production hydroponics and mineral extraction. 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 forests; water resources and fisheries; animal husbandry and horticulture; 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

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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 Bohrsen
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	
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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
Locate and identify local, regional and global natural	NRS.01.02 NRS.01.02 NRS.02.01	AG.2 AG.6	AG-PL.3 AG-PL.2	W.TT.1a.	E2			Lab

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resources.	NRS.02.02		AG.6	9-10				Teacher Observation
Apply principles of forestry, wildlife and fisheries management.	NRS.03.01 NRS.04.01	AG-ENV.1						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-ANI.7						Lab Teacher Observation
Understand land and water management issues as related to mining, estuaries, fisheries and public lands use.	NRS.03.01 NRS.02.06	AG-ENV.2 AG-ENV.3 AG-ENV.4	R.Ki.1.9-10	N-Q.1 N-Q.2 N-Q.3				Lab Teacher Observation
Explore various types of commercial fishing techniques.	NRS.03.01 NRS.02.06	AG-ENV.3 AG-ENV.4 AG.1 AG.4 AG.5			C1			Lab Teacher Observation
Acquire and model appropriate safety practices of hazardous materials and equipment, as they relate to personal, team and environmental perspectives.	CS.06.01 CS.06.03 CS.06.04 CS.08.01	AG.3			A1	A6	Health/ Safety	Lab Teacher Observation

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Demonstrate critical thinking, problem-solving and conflict resolution strategies for use of natural resources and related issues.	PS.03.04 CS.02.04	AG.4 AG-BIZ.1		N-Q.1 N-Q.2 N-Q.3		A2		Lab Teacher Observation
Increase an awareness of careers in natural resources including horticulture, agriculture, forestry and marine industries.	CS.01.01 CS.02.03 CS.03.01	AG.1 AG.5				A5	Management	Lab Teacher Observation
Encourage participation in CTSO's, including FFA and SKILLS USA.	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 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	B2	A3	Work Habits	FFA and SKILL USA event participation
Demonstrate and apply the principles of hydroponic gardening	PS.01.02 PS.02.01 PS.02.02 PS.02.03 PS.03.02	AG.4 AG.6 AG-PL.1 AG-PL.3						

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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)