

## CTE Course Description and Standards Crosswalk

### Course Information

Course Name	Forestry
Course Number	81060
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Horticulture
Date of district Course Revision	October 2014

### Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	FFA
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### Occupational Standards

Source of Occupational Standards	The National FFA Organization.
Names/Numbers of Occupational Standards	Agribusiness Systems (ABS), Plant Systems (PS), Life-knowledge and Cluster Skills(CS)

### Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Forestry examines and determines the relationships of forests to the natural ecosystems and recommended practices for utilizing forest resources. Careers in this pathway might include park managers or technicians, forest managers or technicians, natural history interpreters, and forest workers or loggers.
Instructional Topic Headings (please separate each heading by a semi-colon)	Terminology; Math Skills; Communications; Equipment Safety; Environment/Ecology; Woodlands Management; GIS Techniques; The Business of Forestry; Leadership Skills; Encourage Career and Technical Student Organizations (CTSO)

### Summative Assessments and Standards

Technical Skills Assessment (TSA)	No
Course addresses:	
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)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	

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# of Postsecondary Credits	
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### Additional CTE Course Information

Author	
Course developed by	Don Berberich
Course adapted from	
Date of previous course revision	October 2013
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
Reinforce forestry principles, definitions, history and terms related to forestry from Introduction Agriculture and Natural Resources course.	NRS.01	AG- NR 1 AG-1	RH.9-10.4 RH.9-10.6 WHST.9-10. A-F RL.11-12.7	S-IC.6	A1, A3, A4, E1, E2	A2	Technical Skills	Natural Resources Career Development Event – FFA
Identify and describe types, parts, and taxonomy of trees and forest succession.	NRS.01.02	AG-PL.3	RST.11-12.2 S.9-10.4	S-IC.6	A1, A4, E1, E2	A2, A5	Technical Skills	Natural Resources Career Development Event – FFA
Apply math skills to measurement (scaling, cruising/volume determination; beginning statistics; and accounting for SAE or business	NRS.02.02 NRS.02.0	AG-1,5 AG-BIZ-1,2,3,4,5	L.9-12.6	N-Q.1, N-Q.2, N-Q.3, N-CN.2		A2	Technical Skills	Natural Resources Career

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<b>Student Performance Standards (Learner Outcomes or Knowledge &amp; Skill Statements)</b>	<b>Specific Occupation al Skills Standard</b>	<b>Common Technical Core Standards</b>	<b>New Alaska ENG/LA Standards</b>	<b>New Alaska Math Standards</b>	<b>Alaska Cultural Standards</b>	<b>Employability/ Career Readiness Standards</b>	<b>All Aspects of Industry/ Systems</b>	<b>Assessment</b>
plan).	3			A-SSE.4				Developme nt Event – FFA
Use GIS tools (GPS, map, compass) in the field and office for forest planning.	NRS.02.0 2 NRS.02.0 3	AG-NR.1 AG-ENV.1 AG-ENV.5 AG-PST.5	W.9-10.7	N-Q.2, N- Q.3, G- MG.1	A1, A4, B4, E1, E2	A2, A6	Technology	
Map geographical locations of species and define ecological factors that are influenced by ecosystems.	NRS.02.0 2 NRS.02.0 3	AG-PST.1 AG-PST.5	W.11- 12.6 W.11- 12.7 W.11- 12.8 RH.11- 12.7 SL.9- 10.4	S-IC.6 S-MD.6&7	A1, A4, B4, E1, E2	A2	Technical Skills	Natural Resources Career Developme nt Event – FFA
Recognize, examine and articulate environmental, economic, cultural, and social issues and regulations affecting the management of forests.	NRS.01 NRS.02.0 5	AG-NR.2 AG-ENV.2 AG-ENV.3 AG-ENV.4	SL.9- 10.1.a-d RL.11- 12.7 RL.11- 12.8 RL.11- 12.9	S-IC.6	A1, A4, E1, E2	A1, A2, A5	Community	NR Career Dev. Event – FFA Ag Issues Career Developme nt Event & Canon Envirothon
Apply and utilize techniques for multiple use land planning.	NRS.01 NRS.02	AG-NR.1 AG-ENV.3 AG-PL.4	SL.9- 10.1. a-d	N-Q.1 N-Q.2 N-Q.3	A1, A4, E1, E2	A2, A5	Community Planning	Mock town Meeting
Identify and list forest products including non-timber products.	NRS.01	AG-PL.2	L.9-12.6	S-IC.6	A1, A4, E1, E2	A2	Technical Skills	NR Career Dev. Event - FFA

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Write a forest management plan which identifies, assesses, and improves forest health.	NRS.01 NRS.02	AG-PL.1 AG-PL.4 AG-NR.1 AG-NR.3 AG-NR.4	WHST.9-10.4	N-Q.1 N-Q.2 N-Q.3 S-IC.3	A1, A4, E1, E2	A1, A2, A5	Technical Skills Planning Management	NR Career Dev. Event - FFA
Prepare and present to forest professionals a written and oral land utilization and economic plan.	NRS.01 NRS.02	AG-NR.1 AG-ENV.3	SL.9-10.4 SL.9-10.5 L.9-10.6	N-Q.1 N-Q.2 N-Q.3	A1, A4, E1, E2	A2, A5	Technical Skills Planning	NR Career Dev. Event - FFA
Identify hand tools, power tools, and outdoor related equipment and simulate or demonstrate their safe uses in forestry management.	NRS.01 CS.06 CS.07 CS.08	AG-ENV.5	SL.9-10.4	S-IC.6 S-MD.6&7	A1, A4, B4, E1, E2	A6	Technical Skills Health/Safety Technology	FFA Agriculture and Farm Safety Career Development Event- FFA
Perform and model safety, maintenance, and operations of equipment in the field and lab settings.	NRS.02.01 CS.06 CS.07	AG-ENV.5	SL.9-10.4	S-MD.6&7	A1, A4, E1, E2	A6	Technical Skills Health/Safety	FFA Agriculture and Farm Safety Career Development Event- FFA
Recognize and generate employment and educational opportunities in forestry management, product development, and wood processing at the local, regional and	CS.01 CS.02 CS.03	AG.5 AG.1 AG.2	SL.9-10.4	S-MD.6&7	A1, A4, E1, E2	A3, A4, A5, B1, B2, B3, B4, B5	Community Management	Coop/SOE

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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
global levels.								
Develop a business plan for a class-based enterprise with assistance (i.e. Junior Achievement or Small Business Development Center).	CS.01 CS.02 CS.03 CS.04	AG-BIZ.1 AG-BIZ.2 AG-BIZ.3 AG.BIZ.4 AG.BIZ.5	WHST.9-10.2.a-f	N-Q.1 N-Q.2 N-Q.3	A1, A4,	A5, B2	Technical Skills Planning Management Finance Labor	Class-based Enterprise  SOE
Participate in Career and Technical Student Organizations (i.e. FFA, 4-H, or student membership in SAF (Society of American Foresters)).	CS.01 CS.02 CS.04	AG.5	SL.9-10.4 SL.9-10.5 SL.9-10.6 SL.11-12.4	S-MD.6&7 S-IC.6	A1, A4,	A1, A2, A3, A4, A5, A6, A7, B1, B2, B3, B4, B5	All	Supervised Ag. Exp. Program Career Dev. Events – Technical & Leadership – FFA Degree Program

**Instructional Resources**

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

Text: Introduction to Forestry Science by I. DeVere Burton

FFA National FFA Foundation, [www.FFA.org](http://www.FFA.org)

Occupational Skills Standards:

National FFA Foundation: National Agriculture, Food and Natural Resources (AFNR) 2009 edition

SAE Supervised Ag Experience

SAF Accreditation Handbook, Society of American Foresters, SAF 200. These are occupational skills standards identified in the State Forestry Core document.

CTSO FFA

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CDE Career Development Event, a formal CTSO third party evaluation using the format of competitions. They are classified as leadership or technical skills are local, regional, state or national in scope.

SOE FFA Supervised Occupational Experience

ASAS Alaska Standards for Alaska Students <http://www.eed.state.ak.us/standards/pdf/standards.pdf>

ITAC Integrated Technical and Academic Competencies. The Ohio State University: Center on Education and Training for Employment.  
<http://www.cete.org/publications/itac.asp> <http://education.ohio.gov/Topics/Career-Tech/Agricultural-and-Environmental-Systems>