

<b>Course Name:</b> Building Construction	<b>District Name:</b> Ketchikan Gateway Borough School District
Adapted from: _____	Developed by: Kurt Lindemann
Date: April 19, 2005	

<b>EED USE ONLY</b>	Date: _____
Approval Status: _____	

▪ **Prerequisite Course(s):** none

▪ **High School Credit =**  1-  2 **Depends if 2 hr block**

▪ **Pathway (Optional):** Industrial Engineering & Technology

▪ **Eligibility for Nationally Recognized Skill Certificate(s)/State License?**  No OR  Yes

If Yes, identify Certificate(s): NCCER certificates

▪ **Tech Prep:**  No OR  Yes

If Yes, (1) List Postsecondary Institution \_\_\_\_\_

(2) Name of Course \_\_\_\_\_ And the number of postsecondary credits

▪ **Is this course brokered through another institution or agency?**  No OR  Yes

If Yes list institution/agency: \_\_\_\_\_

▪ **Course Description** (a brief narrative description – perhaps from the school’s registration materials):  
 Students will learn the basics in building construction through practical applications. Safety will be emphasized in all areas. Emphasis will also be placed on building construction in relation to the industry. Students will become more aware of career opportunities in the construction industry through exploration of the field.

▪ **Content Headings/Topics:**

World of Work	Terms of building trades	Lumbar & Wood products	Fasteners
Math & Construction	House Plans	Safety Codes	Safety Practices
Power Machines	Pouring Concrete	Framing & Sheathing	Ladders & Scaffolds
Roofing	Windows and Doors	Weather Proofing	Insulation
Finishes	Labor Management situations		

**Source of Occupational Skills Standards**

Source/Organization/Agency	Acronym	Website or location of Information	Section, Chapters referenced in Performance Standards etc
National Center for Construction Education and Research	NCCER	<a href="http://www.nccer.org">www.nccer.org</a>	All NCCER manual and guidelines

Student Performance Standards (Learner Outcomes)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, Science Performance Standards	Alaska Content Standards	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Assessments
1. The students will understand the function of industry and		M: E	A,B,C,D,	B	A,E	6	Written

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the world of work in our society		W: A,D R: B,D,E	E				
2. The student will understand the vocabulary of the construction trades		M: E W: A,D RE: B,D,E	A,B,C,D, E	B	A,E	4	Written
3. The student will identify and understand the uses of lumber and wood products used in the construction field		M: D,E W: A,D R: B,D,E	A,B,C,D, E	B	A, E	4	Performance
4. Students will identify, describe and install fasteners used in the construction trades	00103-00 1,2	M: A,E W: A,D R: B,D,E	B	B	A,E	4	Performance Written
5. Students will understand and use mathematics to solve problems in the construction trades	00102-04	M: A,B,C,D,E W: D R: B,D,E	A,C,D,E	B	None	4	Written
6. Students will understand typical house plans used for the building of residential structures	00105-04	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	1	Written
7. Students will understand building codes and their implementation		M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	8	Written
8. Student will recognize and implement safe working practices in the construction field.	00101-04	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	8	Performance
9. Students will identify and operate power machines in a safe and correct manner.	00104-04 00103-04	M: A,B,D,E W: D R: B,D,E	B,C,D,E	B	A,E	4,5	Written Performance
10. Students will understand the procedures and methods of pouring concrete at a building site.		M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	4,5	Written
11. Students will understand the sequence of operation in framing and sheeting in wood frame construction.	00103-00 2,3 00104-00 1,2,3	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	1,2,4	Written Performance

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12. Students will understand and use the layout tools for framing and sheeting in an accurate manner.	00102-00 2,3	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	2	Written Performance
13. Students will understand and implement the safe use of ladders and scaffolding in the building process.	00101-04	M: E W: D R> B	A,C,D,E	B	None	8	Performance
14. Students will layout and implement the wood framing and sheeting of a wood framed structure.	00103-04 2,3 00104-04 2,3	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A, E	2,4	Performance
15. Students will layout and implement the roofing of a wood framed structure	00102-04	M: A,B,D,E W: D R: B,D,E	A,C,D,E	B	A,E	2,4	Performance
16. Students will recognize and understand the uses of different types of windows and doors and the techniques needed to install them.		M: A,B,D,E W: D R: B, D,E	A,C,D,E	B	A,E	4	Written Performance
17. Students will evaluate the characteristics of wood that govern the selection of finishes and the application of these finishes.		M: E W: A,D R: B,D,E	A,E	B	A,E	4,5	Written
18. Students will identify and understand the different materials, application and tools used in weather-proofing.	00103-04	M: A,B,E W: D R: B,D	A,E	B	A,E	4,5	Written Performance
19. Students will identify and understand the different materials, application methods and tools used for insulating.	00103-04	M: A,B,E W: D R: B,D	A,E	B	A,E	2,4,5	Written Performance
20. Students will understand and implement construction specifications	00105-04	M: A,B,C,D,E W: A,D R: B,D,E	A,B,C,D,E	B	A,E	2	Written Performance
21. Students will understand the implications of a contract-labor agreement and the functions of organized labor units.		M: E W: A,D R: B,D,E	A,B,C,D,E	B	A,E	6, 9	written

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**Major Instructional Resources: (websites, textbooks, essential equipment, reference materials, supplies)**

Core Curriculum Introductory Craft Skills  
NCCER, 2004

Planning Construction II  
NCCER 2001  
Residential Carpentry I

Materials and Supplies for a functioning Wood Shop with purchasing of woods, fasteners, as needed