



## MASTER COURSE OUTLINE

A. CARP 1260 Deck Construction

B. COURSE DESCRIPTION:

This course emphasizes the basic concepts of deck construction methods. The focus is on application and techniques necessary to select materials and construct decks, railing, and stairs. Students design, plan, and construct a deck that meets the minimum requirements of the International Residential Code. This course is part of the Carpentry program which is accredited by the Home Builders Institute (HBI) and the National Association of Home Builders (NAHB). Prerequisites: CARP 1110.

**(2 Cr – 1 lect, 1 lab)**

C. \*Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Decking requirements related to residential construction
- Types of deck materials used in residential construction
- Framing materials and installation techniques
- Flashing and decking materials installation techniques
- Handrail and bench installation techniques
- Step installation techniques
- Complete an estimate for decking materials for residential construction

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
* <u>Critical Thinking</u>	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. identify the minimum decking requirements of the International Residential Code for a residential home.

<u>CS</u>	properly install deck framing, flooring, and rail components.	<ol style="list-style-type: none"> <li>1. install posts and girder to proper methods of code.</li> <li>2. install framing materials to proper methods of code.</li> <li>3. install handrails and guardrails proper methods of code.</li> <li>4. install steps to proper methods of code.</li> </ol>
<u>CS</u>	create safe work area.	<ol style="list-style-type: none"> <li>1. demonstrate safe work habits and properly use safety equipment.</li> <li>2. identify tools and equipment that need repair or removal from service.</li> </ol>
<u>CS</u>	plan, design, and estimate materials needed for a residential deck.	<ol style="list-style-type: none"> <li>1. Complete an estimate of decking materials needed for installation based on residential code.</li> </ol>

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

H. COURSE CODING INFORMATION:

Course Code S/Class Maximum 28; Letter Grade

Revision date: 04/01/14; 04/02/24

AASC Approval date: 04/22/14; 04/16/24

\*These five MnTC Goals have been identified as Riverland Community College Core Themes. Every course in the Riverland Community College curriculum shall meet outcomes from one of these themes.

\*\*These five MnTC Goals have been identified as Riverland Community College Disciplines. Riverland's MnTC courses also shall meet outcomes from a Discipline Area.

NOTE: The Minnesota Transfer Curriculum "10 Goal Areas of Emphasis" are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

<b>*Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>
Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

<b>**Riverland Community College Discipline Areas</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

Riverland