



## MASTER COURSE OUTLINE

A. CARP 1250 Building Codes/Estimating

B. COURSE DESCRIPTION:

This course will introduce the student to residential construction estimating concepts and building codes. Students will be introduced to materials and methods used in residential construction projects. Application of linear, square, and cubic measurements and their relationship to the estimating process will be studied. Estimating software will be introduced. The application of the various Minnesota Codes and the International Residential Code used in residential construction will also be studied. 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 Credits – 1 lecture, 1 lab)**

C. **\*\*Core Theme: Critical Thinking**

D. MAJOR CONTENT AREAS:

- Proper use of the International Residential Codes
- Local Codes, Zoning, Ordinances, and Permitting
- Public Health, Safety, and Welfare
- Principles and Application of Construction, Estimating, and Construction Math

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to:	<u>OUTCOMES</u> The student will successfully:
<b>**Critical Thinking</b>	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 requirements of the International Residential Code for a residential home and how they apply to residential construction.
<u>CS</u>	demonstrate International Residential Code knowledge.	1. define and explain the purpose of building codes and zoning laws in residential construction. 2. explain the requirements for obtaining a building permit. 3. discuss the differences in various code books.
<u>CS</u>	create safe work area.	1. demonstrate safe work habits and properly use safety equipment as it relates to building codes.
<u>CS</u>	demonstrate estimating calculation skills.	1. identify the principles of estimating.

		<ol style="list-style-type: none"> <li>2. develop an understanding of the applicable codes and how they apply to residential construction estimating.</li> <li>3. demonstrate consistency in the estimating process.</li> <li>4. estimate costs using industry cost sources.</li> </ol>
--	--	---

F. 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 the instructor or the Student Success Center 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.

G. COURSE CODING INFORMATION: Course Code S/Class Maximum 28; Letter Grade

Revision date: 3/8/17

AASC Approval date: 04/18/17

<b>*Riverland Community College Disciplines</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>

<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>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

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.