



MASTER COURSE OUTLINE

A. CARP 1121 Blueprint Reading I

B. COURSE DESCRIPTION:

This course introduces basic blueprint reading and estimating for residential construction. Students study and read a series of residential construction working drawings. The student identifies different prints used in building a residential home. Estimating a project, such as a garage, is also completed. This course is part of the Carpentry program, and which is accredited by the Home Builders Institute (HBI) and the National Association of Home Builders (NAHB).

(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:

- Drawing types and basic components
- Construction plans and specifications
- Reading construction working drawings
- Identification of abbreviations and line types used in blueprint reading
- Basic estimating in 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. read and describe required working drawings for residential construction.
<u>CS</u>	recognize different construction drawing types and specifications.	1. identify isometric, orthographic, oblique, and presentation drawings.

		<ol style="list-style-type: none"> 2. draw an orthographic sketch from an isometric drawing. 3. draw a two-point perspective. 4. describe the components of a working drawing.
<u>CS</u>	apply proper procedures in reading construction working drawings.	<ol style="list-style-type: none"> 1. identify line types used in construction drawings. 2. identify construction drawing symbols. 3. read and complete questions related to a complete set of residential working drawings including floor plans, elevations, detail drawings, electrical, and plumbing.

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: 02/02/14; 02/27/20; 04/02/24

AASC Approval date: 04/17/18; 04/21/20; 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.

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

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

Riverland