



MASTER COURSE OUTLINE

A. CARP 1121 Blueprint Reading

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. Hand drafting and 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 lecture, 1 lab)**

C. **Core Theme: Critical Thinking

D. 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
- Board drawing of a project

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>**Critical Thinking</u>	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.	<ol style="list-style-type: none"> 1. read and describe required working drawings for residential construction.
<u>CS</u>	recognize different construction drawing types and specifications.	<ol style="list-style-type: none"> 1. identify isometric, orthographic, oblique, and presentation drawings. 2. draw an orthographic sketch from a isometric drawing. 3. draw a two-point perspective. 4. describe the components of a working drawings.
<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.
<u>CS</u>	complete a set of working drawings for a project by hand pencil drawing.	<ol style="list-style-type: none"> 1. identify and demonstrate use of hand drafting tools and techniques. 2. draw and label a full section drawing.

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: 02/02/14; 4/3/18

AASC Approval date: 04/17/18

*Riverland Community College Disciplines	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 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

*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.