



MASTER COURSE OUTLINE

A. CARP 2160 Job Site Setup/Building Layout

B. COURSE DESCRIPTION:

This course examines the layout of a building project on a building site. Students work with setting elevations in preparation for excavation. Students will establish proper setbacks and locate building corners using a Total Station GPS location system. Students will complete required site work plan and drainage plans as required by local government. This course is part of the Carpentry program.

(4 Cr – 1 lect, 3 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:

- Correctly calculate elevations
- Establish excavation, footing, and foundation placement with Total Station
- Layout building within the city requirements
- Complete site work plan
- Complete erosion control plan

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. solve problems independently through previously learned skills.
<u>CS</u>	prepare job site.	1. install silt fence and provide other erosion control methods required

		by MPCA (Minnesota Pollution Control Agency). 2. locate and prepare site with needed equipment.
<u>CS</u>	complete required paperwork for erosion and site drainage.	1. complete all paperwork required by city.
<u>CS</u>	layout building on site.	1. establish building corners with Total Station. 2. correctly set elevation according to plans with Total Station.
<u>CS</u>	create a safe work area.	1. demonstrate safe work habits and properly use safety equipment. 2. identify tools and equipment that need repair or removal from service.

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: 10/25/14; 04/02/24; 01/22/25; 12/02/25

AASC Approval date: 1/27/15; 04/16/24; 03/18/25; 01/20/26

*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)	7A, 7B, 7A/B
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