MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. CRPT	COURSE NUMBER: 1150
NUMBER OF CREDITS: 3	Lecture: 1 Lab: 2 OJT 0
Course Title:	
Site Layout and Foundations	
Catalog Description:	
	dents to the tools and skills necessary to lay out a to form and pour concrete footings for a building.
Prerequisites or Necessary Entry S	kills/Knowledge:
None	g
FULFILLS MN TRANSFER CURR applicable) Goal 1: Communication: by meeting the Goal 2: Critical Thinking: by meeting the Goal 3: Natural Sciences: by meeting the Goal 4: Mathematics/Logical Reasoning: Goal 5: History and the Social and Behavioral competencies: Goal 6: The Humanities and Fine Arts: Goal 7: Human Diversity: by meeting the Goal 8: Global Perspective: by meeting Goal 9: Ethical and Civic Responsibility: Goal 10: People and the Environment: the graph of the g	the following competencies: ne following competencies: _ by meeting the following competencies: al Sciences: by meeting the following by meeting the following competencies: the following competencies: the following competencies: _ by meeting the following competencies:
Topics to be Covered (General)	
Builder's level, level-transit and laser level,	and set-up of each
Establishing grades and elevations	
Locating the building on a lot	
Building layout	
The function of batter boards	
Components of concrete and their function	
Forming for concrete pours	
Placing and finishing concrete	
Types of foundations for residential building	gs

Student Learning Outcomes	
Demonstrate the proper set-up of a builder's level, level-transit and laser transit.	
Establish grades and elevations with a builder's level and/or a level-transit.	
Lay out lines for a given lot.	
Lay out building corners and pull building lines for a given building size.	
Square building corners using the 3-4-5 method.	
Square building corners using a builder's level.	
Set batter boards and explain their function.	
Demonstrate a proficiency in reading and interpreting plot plans, foundation plans and floor	
plans.	
Describe how concrete is mixed and the function of each component.	
Identify tools used to pour and finish concrete.	
Identify defects that may occur in concrete and their cause.	
Identify types of foundations and advantages of each.	
Is this course part of a transfer pathway: Yes □ No ☒	
*If yes, please list the competencies below	

Revised Date: 1/2022