

# MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

## Course Outline

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**Course Title: Foundations, Concrete, & Site Layout**

**Semester Course Prefix and Number: CARP 2255**

**Old Quarter Course Prefix and Number: CARP 2530, 2540, 2582**

**Submitted by:**

**Approval Date:**

**Revision Date:**

**Number of Credits: 4**

**Semester(s) Offered:**

**Class Size:**

Negotiated by AASC on:  
(date)

**Number of Lecture Credits: 1**

**Number of Lab Credits: 3**

**Number of Lab Hours:**

**Number of Studio/Demonstration/Internship Credits:**

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### **Course Purpose Code:**

**0** – Developmental Courses

**1** – Non-transferable

**2** – Technical course related to career programs

**3** – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)

**4** – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)

**5** – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.

**9** – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

### **Catalog Description:**

This course will focus on constructing a house foundation according to blueprints of a house project.

Laying and finishing concrete floors, slabs and sidewalks, and developing building layouts for wall lines, elevations, and angles according to house blueprints are also covered.

### **Prerequisites and/or recommended entry skills/knowledge:**

Course Prerequisite(s): None

Reading Prerequisite: None

Composition Prerequisite: None

Mathematics Prerequisite: None

### **Career Programs and Transfer Majors Accessing this Course:**

### **Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:**

(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer's approval are required.)

0.  **X** None

1.  Communications

2.  Critical Thinking

3.  Natural Sciences

4.  Mathematical/Logical Reasoning

5.  History and the Social and Behavioral Sciences

6.  The Humanities and Fine Arts

7.  Human Diversity

8.  Global Perspectives

9.  Ethical and Civic Responsibility

10.  People and the Environment

### **Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- Layout concrete footings according to a house blueprint
- Build concrete forms

- Pour concrete floorings
- Pour and finish concrete slabs

**Student Assessment Methods:**

- Class participation
- Attendance
- Group work
- Laboratory observation
- Locally developed exams
- Workbook questions

**Use of Instructional Technology:** (includes software, interactive video and other instructional technologies):

- An actual blueprint of the house project
- The actual building of footings, foundation walls, and concrete slabs for the house project

**A one-paragraph summary or outline of the major course content:**

This course focuses on the language of blueprints and codes. The students will be constructing a house project of all phases of construction. Also working with building inspectors and building codes.

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Course Outline Revision History:**

The students will be constructing a house project. House layout and construction of batter boards will start the course. Shooting grades and placing forms for footings will be next. Building foundation walls, drain tile, pouring floors, and water proofing will finish the course.

**Approvals:**

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

**Distribution:** Original – Instructional Services  
**Copies:** Transfer Specialist, Originating Faculty Member, Records  
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