



## MASTER COURSE OUTLINE

A. CMBT 1100 Construction Graphics

B. COURSE DESCRIPTION:

Emphasis on plan reading fundamentals and utilizing examples related to commercial construction principles. The course addresses construction terminology, detail hierarchies, scale, content, notes and specifications, reference conventions, and computer applications. The utilization of electronic drawing software will be part of coursework. **(3 cr. – 3 lect, 0 lab)**

C. \*\* Core Theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- Demonstrate an understanding of the design process
- Demonstrate commercial plan reading skills
- Utilize electronic drawing software to complete an architectural commercial drawing set
- Identify specific discipline areas on a set of construction documents and the relationship to other disciplines

E. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</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.	1. apply an effective planning method for a construction project.
<u>CS</u>	identify various construction terminology meaning.	1. demonstrate an understanding of construction terminology. 2. identify meaning and relevance to an architectural drawing set of construction documents.
<u>CS</u>	identify commercial discipline areas within a construction drawing set of plans and the relationships.	1. explain the impact of construction changes on the schedule costs and resources. 2. demonstrate an understanding of construction changes and how the changes may impact the construction schedule.
<u>CS</u>	demonstrate an understanding of the design process.	1. demonstrate an understanding of the design process from initial design sketch through completion of construction.

<u>CS</u>	demonstrate an understanding of electronic drawing software.	<ol style="list-style-type: none"> <li>1. demonstrate knowledge of the drawing software through an architectural drawing set.</li> <li>2. apply plan reading skills through a completion of an architectural construction set of drawings.</li> </ol>
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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.

- Laptop: Verify with Instructor prior to purchasing regarding specific requirements.

G. COURSE CODING INFORMATION: Course Code A/Class Maximum 48; Letter Grade

Revision date: 03/01/2021

AASC Approval date:

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

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

\*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.