



# COURSE OUTLINE

2020/2021

COURSE NAME: Building Products and Materials

COURSE CODE: CSTN1132

---

## COURSE DESCRIPTION

This course introduces and examines the materials, products, building systems, structural components, building elements, and internal finishing components that are used in the construction of buildings. Topics include the building construction industry, interpretation of construction documents, and identification of building materials.

Course Credits: 3.00

Equivalent Courses: CON1132

---

## LEARNING OUTCOMES

OUTCOME	Upon successful completion of this course, you will be able to
1	<p>Explain the building construction industry and the organizations involved</p> <p>The following concepts, skills, and issues are used to support this Outcome:</p> <ul style="list-style-type: none"><li>• Discuss the roles of construction professionals in the design and construction of buildings</li><li>• Discuss the Construction Specifications Canada MasterFormat</li></ul>
2	<p>Identify material sources product standards, including structural components, building elements, and internal finishing components.</p> <p>The following concepts, skills, and issues are used to support this Outcome:</p> <ul style="list-style-type: none"><li>• Identify and describe divisions 03 - 10 and 12 of the Construction Specifications Canada Masterformat.</li><li>• Identify and describe the differences between Performance, Prescriptive and Proprietary specifications</li><li>• Identify and describe green building rating systems that specify material properties</li></ul>
3	<p>Explain building materials and where these materials are used in construction</p> <p>The following concepts, skills, and issues are used to support this Outcome:</p> <ul style="list-style-type: none"><li>• Describe materials according to the relevant divisions of the Construction Specifications Canada MasterFormat</li><li>• Describe and explain the process of building design and the selection of materials</li><li>• Describe and explain the process of building construction</li></ul>

4	<p>Interpret construction documents used in construction that identify materials</p> <p>The following concepts, skills, and issues are used to support this Outcome:</p> <ul style="list-style-type: none"> <li>▪ Compare and interpret construction documents. Students will identify construction terminology and language</li> <li>▪ Interpret project specifications and their relationship to technical drawings</li> <li>▪ Use the Construction Specifications Canada MasterFormat to classify materials</li> </ul>
---	---

## STUDENT EVALUATION

OUTCOME	ACTIVITY DESCRIPTION	MARK DISTRIBUTION
2 and 3	Assignments	20%
1, 2, 3 and 4	Quizzes	20%
1, 2, 3 and 4	Mid Term Assessment	30%
1, 2, 3 and 4	Final Assessment (Comprehensive)	30%
<b>TOTAL</b>		<b>100%</b>

## COURSE COMPLETION REQUIREMENTS

Minimum passing grade of (50%) is required. Refer to the NAIT Academic Regulations for Academic Standing Criteria.

## STUDENT EQUIPMENT AND SUPPLIES

Standard note taking supplies, PPE for site field trips, laptop computer, electronic presentation equipment (laptop computer and memory sticks), report binding available from NAIT Project Factory.

## DELIVERY METHOD

This course will be taught using a variety of delivery methods which may include face-to-face, online, or blended teaching platforms. Activities such as collaborative exercises/assignments, seminars, labs, discussion, audio/visual presentations, case studies, and practicums may be used to support learning.

## STUDENT RESPONSIBILITY

Enrolment at NAIT assumes that the student will become a responsible citizen of the Institute. As such, each student will display a positive work ethic, assist in the preservation of Institute property, and assume responsibility for his/her education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## EQUITY STATEMENT

NAIT is committed to providing an environment of equality and respect for all people within the learning community, and to educating faculty, staff, and students in developing inclusive teaching and learning contexts that are welcoming to all.

Leadership Review Date: June 05, 2018

Curriculum Committee Review Date: June 06, 2018

Changes to This Course Outline: Every effort has been made to ensure that information in this course outline is accurate at the time of publication. The Institute reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.

All Rights Reserved: No part of this course outline may be reproduced in any form or resold without written permission from NAIT. Copyright 2020.