



# COURSE OUTLINE

2024/2025

COURSE NAME: Building Products and Materials

COURSE CODE: CSTN1132

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## 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

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## 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 02 - 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>
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## STUDENT EVALUATION

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OUTCOME	ACTIVITY DESCRIPTION	MARK DISTRIBUTION
1	Specifications & Roles Assignments (5-7)	25%
4	Specification Quizzes (8-10)	25%
2 and 3	Unit Assessment	25%
2 and 3	Unit Assessment	25%
<b>TOTAL</b>		<b>100%</b>

## COURSE COMPLETION REQUIREMENTS

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

## STUDENT EQUIPMENT AND SUPPLIES

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Standard note taking supplies, PPE for site field trips, laptop computer, electronic presentation equipment (laptop computer and memory sticks).

## STUDENT RESPONSIBILITY

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It is expected that students will be responsible citizens of the Institute by following the Student Rights and Responsibilities Policy (SR 1.0). As such, each student will assist in the preservation of Institute property, and assume responsibility for their education by staying informed of and abiding by academic requirements and policies; demonstrating respect toward others; and meet expectations concerning attendance, assignments, deadlines, and appointments.

## EQUITY AND INCLUSION STATEMENT

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NAIT is committed to advancing equity and to actively and intentionally creating learning environments that promote a sense of belonging and dignity that ensure all people are safe, respected and valued. Acknowledging that every member of the NAIT community has a role in and responsibility to this work, NAIT provides the resources and support necessary for programs, departments and individuals to champion equity, diversity and inclusion and address barriers in meaningful ways.

## TERRITORIAL ACKNOWLEDGEMENT

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At NAIT, we honour and acknowledge that the land on which we learn, work and live is Treaty Six territory. We seek to learn from history and the lessons that have come before us, and to draw on the wisdom of the First Peoples in Canada. Only through learning can we move forward in truth and reconciliation, and to a better future together.

Leadership Review Date: May 29, 2023

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.

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