

Courses	Course Description	Prerequisite
TTI1O1 Exploring Technology, Grade 9, (Open)	This course enables students to understand the technological and computer concepts they need in order to design, develop, and build usable products and/or deliver services, and to pursue further technological studies. Students will use the technological design process and a variety of tools and software to solve problems, complete projects, and strengthen their communication skills. This course introduces students to the basic fundamentals and machinery relating to all technologies offered at C.C.V.I.	<i>None</i>
TCJ2O1 Construction Technology, Grade 10, (Open)	This course requires students to design, build, and evaluate projects using design instruments and machine and hand tools. Students will solve technological problems through a variety of media; identify and describe building materials and other resources needed to construct, maintain, and service buildings; identify support systems and components; apply safety rules related to materials, processes, and equipment; identify common architectural styles; and identify careers related to construction technology. Students learn by designing and building several attractive woodworking projects which they may take home when completed. The course fee is based on the project that is taken home.	<i>None</i>
TDJ2O1 Technological Design, Grade 10, (Open)	This course requires students to design and develop innovative products and services. Students will learn the following: how to identify user needs related to specified design problems; the physical properties of selected materials and their application in product design; techniques to create physical products and services; various presentation techniques; how to test and evaluate design solutions; and the implications of technology on the development of products or services. They will also become aware of design-related careers.	<i>None</i>
TGJ2O1	This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media and	<i>None</i>

<p>Communication Technology, Grade 10 (Open)</p>	<p>animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.</p>	
<p>TMJ2O1 Manufacturing Technology, Grade 10, (Open)</p>	<p>This course introduces students to the scope of the manufacturing industry, the various components used in the design of products, the industrial tools and equipment used, and methods of manufacturing. Students will learn about technical drawing; preparation processes; manufacturing techniques; power, electronic, and quality control systems; careers in the manufacturing field; and the role of entrepreneurs in Canadian society</p>	<p><i>None</i></p>
<p>TTJ2O1 Transportation Technology, Grade 10, (Open)</p>	<p>This course requires students to build projects and to learn service procedures related to different modes of transportation. Students will learn about support systems for transporting people and products; measurement systems and methods; the analysis, design, and construction of a system to convert and make practical use of energy; the function of major vehicle system components; the impact of transportation systems on the environment; communication skills; and transportation related careers.</p>	<p><i>None</i></p>
<p>TCJ3C1 Construction Technology, Grade 11, (College)</p>	<p>This course focuses on residential and light construction systems related to commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light construction industry; structural analysis and design; presentation and working drawings; and auxiliary systems. They will also estimate materials and labour costs; study industry standards and building codes; consider health and safety issues and energy conservation; and explore careers and the impact of construction technology on society and the environment. The course fee is based on the project that is taken home.</p>	<p><i>Recommended Preparation: TCJ2O1</i></p>

<p>TWJ3C</p>	<p>This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and will explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.</p>	<p><i>Recommended Preparation:</i> <i>TCJ2O1</i></p>
<p>TDJ3M1</p> <p>Technological Design, Grade 11, (University/College)</p>	<p>This course provides students with opportunities to apply the principles of technological design to challenges in communications, manufacturing, electronics, transportation, architecture, industrial and consumer products, health and safety equipment, and environmental services. Students will identify user needs, estimate labour and material costs, analyze material characteristics, and illustrate design solutions, using traditional and computer-based methods. They will also acquire the basic design skills required for post-secondary studies in engineering, manufacturing, architecture, and construction. This course will focus on architectural and industrial design</p>	<p><i>Recommended Preparation:</i> <i>TDJ2O1</i></p>
<p>TGJ3M</p>	<p>This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues, and will explore college and university programs and career opportunities in the various communications technology fields.</p>	<p><i>Recommended Preparation:</i> <i>TGJ2O1</i></p>
<p>TMJ3C1</p> <p>Manufacturing Engineering</p>	<p>This course focuses on design principles; electronic, pneumatic, and hydraulic control systems; and traditional and advanced manufacturing processes. Students will solve problems and make the critical decisions necessary to develop efficient production systems.</p>	<p><i>Recommended Preparation:</i> <i>TMJ2O1</i></p>

<p>Technology, Grade 11, (College)</p>	<p>They will also study the broad range of career opportunities available in the manufacturing sector and their educational requirements, and will research the scope of the manufacturing industry and the impact of its products on individuals, society, and the environment.</p>	
<p>TTJ3C1 Transportation Technology, Grade 11, (College)</p>	<p>This course examines the infrastructure required for the operation of land, air, and/or marine vehicles. Students will design, construct, and modify vehicles, and apply safe work practices and procedures using current technology. They will also develop effective communication and teamwork skills when developing solutions to managing vehicle support systems; investigate the educational requirements for career opportunities in the transportation sector; and analyze the impact of transportation technology on society and the environment. This course will focus on land transportation and is designed to broaden student knowledge and skills for general interest.</p>	<p><i>Recommended Preparation:</i> <i>TTJ2O1</i></p>
<p>TTJ3E2 Transportation Technology, Grade 11, (Workplace) 2-Credits, 1 each semester</p>	<p>This course examines the various land and/or marine vehicles and the vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector and will examine the impact of the transportation sector on people, society and the environment. This course will focus on land Transportation and is designed for the student planning a career in the transportation industry.</p>	<p><i>Recommended Preparation:</i> <i>TTJ2O1</i></p>
<p>TCJ4C1 Construction Technology, Grade 12, (College)</p>	<p>This course focuses on advanced residential construction, more complex construction systems, and the introduction of heavy construction related to commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light and heavy construction industries; presentation and working drawings; and auxiliary systems. They will also estimate materials and labour costs; study industry standards and building codes; consider health and safety issues; and explore energy conservation, careers, and the impact of construction</p>	<p><i>TCJ3E1</i></p>

	<p>technology on society and the environment. The course fee is based on the project that is taken home.</p>	
<p>TDJ4M1</p> <p>Technological Design, Grade 12, (University/College)</p>	<p>This course provides students with opportunities to solve problems in design through the use of technical drawings, model building, testing, and marketing. Students will research, design, and test solutions for residential or commercial architecture, industrial engineering, and manufacturing. They will also examine the educational requirements of a technical-design-related career in engineering, architecture, or industrial design.</p>	<p><i>TDJ3M1</i></p>
<p>TGJ4M</p>	<p>This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology, and will investigate career opportunities and challenges in a rapidly changing technological environment.</p>	<p><i>TGJ3M</i></p>
<p>TMJ4C1</p> <p>Manufacturing Engineering Technology, Grade 12, (College)</p>	<p>This course focuses on advanced manufacturing and engineering, and provides students with an opportunity to develop specialized knowledge and skills used in sophisticated production processes. Students will solve problems; make the decisions necessary to develop a product for manufacture; and examine production methods, quality control systems, and environmental and societal impacts.</p>	<p><i>TMJ3C1</i></p>
<p>TTJ4C1</p> <p>Transportation Technology, Grade 12, (College)</p>	<p>This course examines alternative modes of mass transit to enable students to develop the specialized knowledge and skills required to work with sophisticated land, air, and/or marine vehicles and transportation systems. Students will solve problems related to vehicles and transportation systems; examine transportation related issues such as energy conversion, power transfer, control systems, and environmental and societal impact; and investigate the</p>	<p><i>TTJ3C1</i></p>

	educational requirements of career opportunities in the transportation sector.	
<p>TTJ4E2</p> <p>Transportation Technology, Grade 12, (Workplace)</p> <p>2-Credits, 1 each semester</p>	<p>This course examines the commonalities of land, air and marine vehicles and transportation systems. Students will develop safe workplace habits and business management skills and will use diagnostic, hand and power tools effectively to service and repair vehicles to meet industry standards and safety expectations. They will also research the entry requirements for apprenticeship training programs and develop the employability and technical skills required for entry into the workplace. This course will focus on land transportation and is designed for the student planning a career in the transportation industry.</p>	<p><i>TTJ 3E2</i></p>