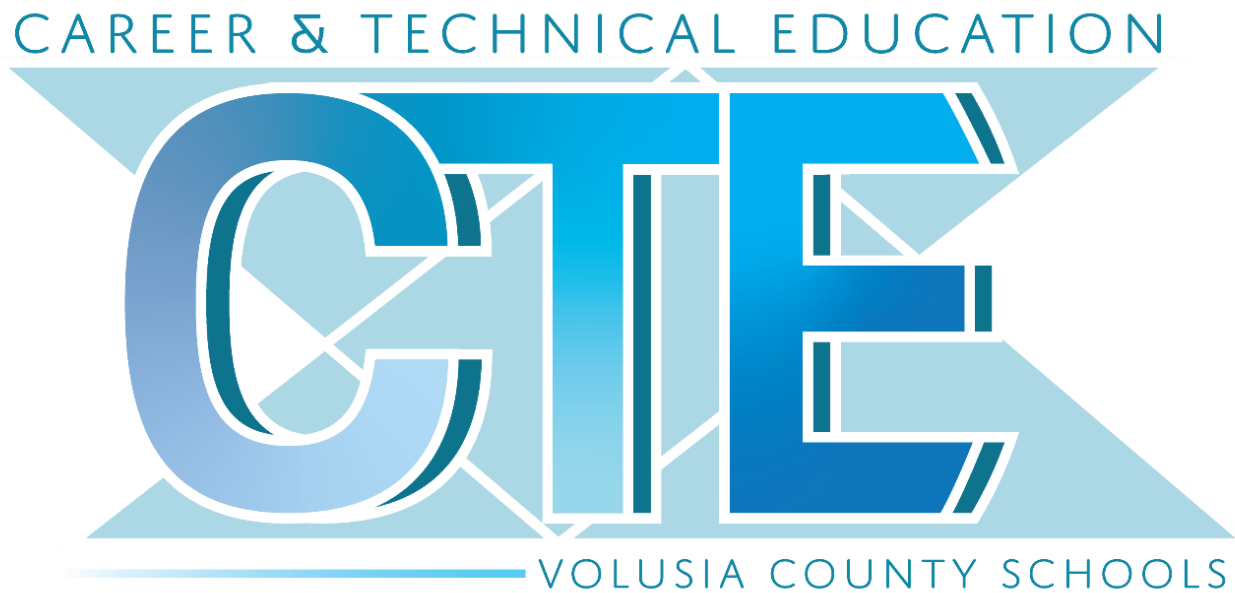




HIGH SCHOOL Programs of Study

2025 - 2026

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AGRICULTURE, FOOD & NATURAL RESOURCES CLUSTER

PROGRAM NUMBER	AGRICULTURAL COMMUNICATIONS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8117000 ⚙️	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8117010	Agricultural Communications 2	CT	
	8117010H	Agricultural Communications 2 HONORS		
	8117020	Agricultural Communications 3	CT	Agricultural Communications
	8117020H	Agricultural Communications 3 HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8117010	AGRICULTURAL COMMUNICATIONS 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	CT	
This course is designed to develop competencies in the communications sector of the agricultural industry including instruction in developing and editing materials for printed media and media broadcast, utilizing photography and graphics, the importance of the internet in communications, writing technical papers and media scripts and ethical and professional issues in the industry.			

8117020H	AGRICULTURAL COMMUNICATIONS 2 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	CT	
This honors course offers extensive experience in Communications. In addition to fulfilling all requirements of Agricultural Communications 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8117020	AGRICULTURAL COMMUNICATIONS 3		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agricultural Communications 2	
	Type of Credit:	CT	
This course is designed to further develop competencies in the communications sector the agricultural industry including instruction in developing and editing materials for printed media and media broadcast, utilizing photography and graphics, the importance of the internet in communications, writing technical papers and media scripts, ethical and professional issues in the industry, and marketing.			

8117020H	AGRICULTURAL COMMUNICATIONS 3 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agricultural Communications 2	
	Type of Credit:	CT	
This honors course offers extensive experience in Communications. In addition to fulfilling all requirements of Agricultural Communications 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	AGRITECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8106800 ✨	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8106820	Agritechnology 1	CT	AEST Animal Science
	8106830	Agritechnology 2	CT	Agritechnology Specialist AEST Animal Science
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8106820	AGRITECHNOLOGY 1		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of Agriscience industry careers; prevention and treatment of livestock diseases; livestock anatomy; wholesale cuts of meat; animal reproduction and identification; animal safety; animal-health certification; plant growth; plant fertilization; safe use of pesticides; maintenance of tools and equipment; record keeping; and employability skills.			

8106830	AGRITECHNOLOGY 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agritechnology 1	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of job and training requirements; professional organizations; crop identification; planting crops; fertilizer calculations and application; irrigation; pest control; harvesting, packing, and grading crops, safe equipment operation; and finance.			

PROGRAM NUMBER	ANIMAL SCIENCE AND SERVICES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8106200 ✨	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8106210	Animal Science and Services 2	CT	AEST Animal Science
	8106220	Animal Science and Services 3	CT	Elanco Animal Science
	8106230	Animal Science and Services 4	CT	AEST Animal Science
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8106210	ANIMAL SCIENCE AND SERVICES 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of safety; animal behavior; animal welfare; animal control; and employability skills.			

8106220	ANIMAL SCIENCE AND SERVICES 3		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Animal Science and Services 2	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of animal digestive systems; animal breeding; preventive medicine and disease control; control of parasites; animal marketing; and analyzing records.			

8106230	ANIMAL SCIENCE AND SERVICES 4		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Animal Science and Services 3	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of animal digestive systems; animal breeding; preventive medicine and disease control; control of parasites; animal marketing; and analyzing records.			

PROGRAM NUMBER	AQUACULTURE		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8004100 ✨	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8112010	Aquaculture 2	EQ	
	8112010H	Aquaculture 2 HONORS		
	8112020	Aquaculture 3	EQ	Aquaculture Technician
	8112020H	Aquaculture 3 HONORS		
	8112030	Aquaculture 4	CT	
	8112030H	Aquaculture 4 HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8112010	AQUACULTURE 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 EQ	
This course is designed to develop competencies in the areas of nature and origin, career opportunities, biological principles, safety, water quality, seed production, market outlets, rules and regulations, technological advances, problem solving and leadership employability communication and human relations skills.			

8112010H	AQUACULTURE 2 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	EQ	
This honors course offers extensive experience in Aquaculture. In addition to fulfilling all requirement of Aquaculture 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8112020	AQUACULTURE 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Aquaculture 2	
	Type of Credit:	EQ	
This course is designed to develop competencies in the area of management and use of water, the propagation and rearing of seed, producing aquaculture or mariculture species, control of diseases, pests and water quality problems, harvesting and processing, marketing and transportation, management skills and leadership, employability, communication and human relation skills.			

8112020H	AQUACULTURE 3 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	EQ	
This honors course offers extensive experience in Aquaculture. In addition to fulfilling all requirement of Aquaculture 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8112030	AQUACULTURE 4		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Aquaculture 2 CT	
This course is designed to develop competencies in the area of management and use of water, the propagation and rearing of seed, producing aquaculture species, control of diseases, pests and water quality problems, harvesting and processing, marketing and transportation, management skills and leadership, employability, communication and human relation skills.			

8112030H	AQUACULTURE 4 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Agriscience Foundations 1 CT	
This honors course offers extensive experience in Aquaculture. In addition to fulfilling all requirement of Aquaculture 4, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	FOOD SCIENCE APPLICATIONS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8129200 ✨	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8129210	Food Science Applications 2	CT	ServSafe, National Registry
	8129210H	Food Science Applications 2 HONORS		
	8129220	Food Science Applications 3	CT	AMSA Food Safety
	8129220H	Food Science Applications 3 HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirements of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8129210	FOOD SCIENCE APPLICATIONS 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This course is designed to develop competencies in the concepts related to: the use of taste and other sensory tests in developing foods; the application of scientific principles in food processing; food marketing; nutritional and economic value of plant-based food products; safe and efficient distribution and handling of food products; environmental factors in food production and processing; the global and historical impact of food on people; and employability skills necessary in the food industry.			

8129210H	FOOD SCIENCE APPLICATIONS 2 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This honors course offers extensive experience in Food Science. In addition to fulfilling all requirements of Food Science Applications 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8129220	FOOD SCIENCE APPLICATIONS 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Food Applications 2 CT	
This course is designed to develop competencies the food industry. The course addresses concepts related to: developing new food products; scientific experimentation with the chemical and biological components of foods; the impact of microbes in food production; the nutritional and economic value of animal-based food products; food spoilage and waste management; safety and security risks in the food supply; the international trade of foods; and employability skills necessary in the food industry.			

8129220H	FOOD SCIENCE APPLICATIONS 3 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Food Applications 2	
	Type of Credit:	CT	
This honors course offers extensive experience in Food Science. In addition to fulfilling all requirements of Food Science Applications 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	HORTICULTURE SCIENCE AND SERVICES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8121600 ✨	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriculture Foundations 1 HONORS		
	8121510	Introductory Horticulture 2	CT	
	8121510H	Introductory Horticulture 2 HONORS		
	8121520	Horticultural Science 3	CT	Certified Hort. Professional
	8121520H	Horticultural Science 3 HONORS		
	8121610	Horticulture Science & Services 4	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8121510	INTRODUCTORY HORTICULTURE 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This course is designed to develop competencies in the areas of career opportunities; global importance of agriculture; plant classification; propagation; growing media; nutritional needs; fertilization; irrigation; pest identification; pest control, pruning; plant installation; transplanting; safe hand-tool use; and employability skills.			

8121510H	INTRODUCTORY HORTICULTURE 2 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This honors course offers extensive experience in Horticulture. In addition to fulfilling all requirement of Introductory Horticulture 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8121520	HORTICULTURAL SCIENCE 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Introductory Horticulture 2 CT	
This course is designed to develop competencies in the areas of industry regulations; plant classification; plant transportation; soil sampling and analysis; fertilizer calculations; recording keeping; irrigation components, water quality; drainage; integrated pest management; pesticide safety and regulations; equipment calibration; chemical growth regulators; xeriscaping; integrated landscape management; safe use of power equipment; record keeping; and employability skills.			

8121520H	HORTICULTURAL SCIENCE 3 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Introductory Horticulture 2 CT	
This honors course offers extensive experience in Horticulture. In addition to fulfilling all requirements of Horticultural Science 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8121610	HORTICULTURAL SCIENCE & SERVICES 4		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Horticultural Science 3 CT	
This course is designed to further develop competencies in the areas of plant identification and classification; growing media; irrigation system set up; and maintaining and analyzing records including production costs.			

PROGRAM NUMBER	PRINCIPLES OF AGRIBUSINESS MANAGEMENT		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8009100 ✱	8106810 8106810H	Agriscience Foundations 1 Agriculture Foundations 1 HONORS	EQ	Ag. Associate
	8009110 8009110H	Agriculture Leadership & Management Agriculture Leadership & Management HONORS	CT	
	8009120 8009120H	Principles of Agribusiness Principles of Agribusiness HONORS	EQ	Entrepreneurship & Small Business
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement; EC = Economics				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8009110	AGRICULTURE LEADERSHIP & MANAGEMENT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This course provides technical skill proficiency and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of leadership and careers within the Agriculture, Food and Natural Resources career cluster.			

8009110H	AGRICULTURE LEADERSHIP & MANAGEMENT HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Agriscience Foundations 1 CT	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriculture Leadership and Management, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8009120	PRINCIPLES OF AGRIBUSINESS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Agriculture Leadership & Management EC	
This course provides technical skill proficiency and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the agribusiness sector within the Agriculture, Food and Natural Resources career cluster. The content includes but is not limited to instruction that prepares individuals to apply the economic and business principles involved in the organization, operation and management of farms and agricultural business. Subject matter includes finance, laws, labor, machinery, facilities, and marketing, as well as leadership, communication, employability and human relations skills.			

8009120H	PRINCIPLES OF AGRIBUSINESS HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year None EC	
This honors course offers extensive experience in agribusiness. In addition to fulfilling all requirements of Principles of Agribusiness, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	TECHNICAL AGRICULTURE OPERATIONS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8005100 ☼	8106810	Agriscience Foundations 1	EQ	Ag. Associate
	8106810H	Agriscience Foundations 1 HONORS		
	8005110	Technical Agricultural Operations 2	CT	
	8005120	Technical Agricultural Operations 3	CT	Ag. Mechanics Specialist
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8106810	AGRISCIENCE FOUNDATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; Agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in Agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.			

8106810H	AGRISCIENCE FOUNDATIONS 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Agriscience. In addition to fulfilling all requirement of Agriscience Foundations 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8005110	TECHNICAL AGRICULTURAL OPERATIONS 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Agriscience Foundations 1	
	Type of Credit:	CT	
This course is designed to develop competencies in the areas of safety; selection and use of tools; planning and building projects and construction of agricultural structures, including the use of electrical circuits, plumbing, concrete and masonry; and employability skills.			

8005120	TECHNICAL AGRICULTURAL OPERATIONS 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Technical Agricultural Operations 2 CT	
This course is designed to develop competencies in the areas of welding; small gasoline engine service and repair; preventative maintenance procedures; irrigation system repair; refrigeration; new and emerging technologies; financial management skills; and employability skills.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8100410	8100410	Agriculture, Food & Natural Resources Cooperative Education OJT	N/A
8100100	8100100	Agriculture, Food & Natural Resources Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8100410	AGRICULTURE, FOOD & NATURAL RESOURCES COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Enrollment in or Completion of an Agriculture, Food & Natural Resources Career Prep Program CT	
This course provides an Agriculture, Food, & Natural Resources on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work performed.</i>			

8100100	AGRICULTURE, FOOD AND NATURAL RESOURCES DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of Agriculture, Food & Natural Resources Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Agriculture, Food and Natural Resources cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Agriculture, Food and Natural Resources career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8100330	8100330	Advanced Concepts of Agriscience (11 th and 12 th only)*	Multiple/Based on Student's Completed Program
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8100330	ADVANCED CONCEPTS OF AGRISCIENCE		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Teacher Recommendation CT	
The purpose of this one-credit course is to provide students who have completed/are currently completing an agricultural program, a capstone experience in research or problem solving. The content is prescribed by the instructor based upon the individual student's assessed needs.			

ARCHITECTURE & CONSTRUCTION CLUSTER

PROGRAM NUMBER	** AIR CONDITIONING, REFRIGERATION AND HEATING (HVAC) TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8723000 ✨	8713010	Air Conditioning, Refrigeration & Heating Technology 1	CT	HVAC Electrical
	8713020	Air Conditioning, Refrigeration & Heating Technology 2	CT	HVAC A/C
	8713030	Air Conditioning, Refrigeration & Heating Technology 3	CT	HVAC Heat Pump
	8713040	Air Conditioning, Refrigeration & Heating Technology 4	CT	NCCER HVAC Tech. 2

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

**This program is only being offered at Pine Ridge High School. Please do not add this program to a school's offerings. Contact the CTE Department if you have questions.

8713010	AIR CONDITIONING, REFRIGERATION & HEATING TECHNOLOGY 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	

This course provides students with competencies in the following topics essential to the air-conditioning, refrigeration and heating industry: safety practices; employability skills; materials and tools; mathematics; and construction documents.

8713020	AIR CONDITIONING, REFRIGERATION & HEATING TECHNOLOGY 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Air Conditioning, Refrigeration & Heating Technology 1	
	Type of Credit:	CT	

This course provides students with competencies in the following topics essential to the air-conditioning, refrigeration and heating industry: matter and heat behavior; history; basic electricity; electrical wiring; mechanical refrigeration; mechanical heating and air-conditioning systems; combustion-type heating; and troubleshooting.

8713030	AIR CONDITIONING, REFRIGERATION & HEATING TECHNOLOGY 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Air Conditioning, Refrigeration & Heating Technology 2	
	Type of Credit:	CT	
This course provides students with competencies in the following topics essential to the air-conditioning, refrigeration and heating industry: electrical control systems and components; electrical generation and distribution components; fluids, pressures, refrigerants and codes; system components and accessories; piping, tubing and fittings; electrical motors; indoor-air quality; chilled systems; and career planning.			

8713040	AIR CONDITIONING, REFRIGERATION & HEATING TECHNOLOGY 4		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Air Conditioning, Refrigeration & Heating Technology 3	
	Type of Credit:	CT	
This course provides students with competencies in the following topics essential to the air-conditioning, refrigeration and heating industry: mechanical components; solid-state electronics; design of heating and cooling systems; and refrigerant cycles.			

PROGRAM NUMBER	BUILDING TRADES AND CONSTRUCTION DESIGN TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8722000 ✨	8722010	Building Trades & Construction Design Technology 1	CT	HBI Pact Core
	8722020	Building Trades & Construction Design Technology 2	CT	HBI Pact Core Geen
	8722030	Building Trades & Construction Design Technology 3	CT	HBI PACT- Carpentry
	8722030H	Building Trades & Construction Design Technology 3 HONORS		
	8722040	Building Trades and Construction Design Technology 4	CT	HBI PACT- Construction
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8722010	BUILDING TRADES & CONSTRUCTION DESIGN TECHNOLOGY 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
The purpose of this course is to develop the competencies essential to the building construction industry. These competencies include skills and knowledge related to safety practices, understanding all aspects of the industry, the use of hand and power tools, employability skills, human relations and leadership skills and related construction theory.			

8722020	BUILDING TRADES & CONSTRUCTION DESIGN TECHNOLOGY 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Building Trades and Construction Design Technology 1	
	Type of Credit:	CT	
The purpose of this course is to develop the competencies necessary for the building, construction, and repair industry. These competencies relate to communication and computer skills; construction components, materials and hardware; and blueprints, specifications, and construction documents.			

8722030	BUILDING TRADES & CONSTRUCTION DESIGN TECHNOLOGY 3		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Building Trades and Construction Design Technology 2	
	Type of Credit:	CT	
The purpose of this course is to develop the competencies necessary for the building, construction and repair industry. These competencies relate to entrepreneurship, building codes and regulations, and CAD drawings and construction documents.			

8722030H	BUILDING TRADES & CONSTRUCTION DESIGN TECHNOLOGY 3		Career Prep
	HONORS		
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Building Trades and Construction Design Technology 2	
	Type of Credit:	CT	
This honors course offers extensive experience in the Building Trades. In addition to fulfilling all requirements of Building Trades and Construction Design Technology 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8722040	BUILDING TRADES & CONSTRUCTION DESIGN TECHNOLOGY 4		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Building Trades and Construction Design Technology 3	
	Type of Credit:	CT	
The purpose of this course is to provide students with hands on skills in the carpentry and masonry trades.			

PROGRAM NUMBER	CARPENTRY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8104300 ☼	8104310	Carpentry Fundamentals	CT	HBI Pact Core
	8104320	Carpentry Layout	CT	HBI Pact Core Green
	8104330 8104330H	Carpentry Framing Carpentry Framing HONORS	CT	HBI Carpentry
	8104340 8104340H	Carpentry Exterior Carpentry Exterior HONORS	CT	
	8104350 8104350H	Carpentry Finish Carpentry Finish HONORS	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8104310	CARPENTRY FUNDAMENTALS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
The purpose of this course is for the student to develop competencies essential to the carpentry industry including safety, use of manual and power tools, applied math, construction plan drawing, building materials, fasteners and hardware, rigging and scaffolding, sustainability and employability skills.			

8104320	CARPENTRY LAYOUT		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Fundamentals	
	Type of Credit:	CT	
The purpose of this course is for the student to continue developing competencies essential to the carpentry profession. These competencies include site preparation and layout, building foundations, engineered structural lumber and floor system framing.			

8104330	CARPENTRY FRAMING		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Layout	
	Type of Credit:	CT	
This course focuses on framing walls and roofs and provides an understanding of hurricane codes.			

8104330H	CARPENTRY FRAMING HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Layout	
	Type of Credit:	CT	
This honors course offers extensive experience in the Carpentry Trade. In addition to fulfilling all requirements of Carpentry Framing, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8104340	CARPENTRY EXTERIOR		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Framing	
	Type of Credit:	CT	
This course provides students with knowledge and skills pertaining to cold-formed steel framing, exterior stair construction, roofing applications, thermal and moisture protection and window and door installation.			

8104340H	CARPENTRY EXTERIOR HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Framing	
	Type of Credit:	CT	
This honors course offers extensive experience in the Carpentry Trade. In addition to fulfilling all requirements of Carpentry Exteriors, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8104350H	CARPENTRY FINISH		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Exterior	
	Type of Credit:	CT	
This course provides students with knowledge and skills pertaining to finish carpentry. Competencies covered include drywall installation, cabinetry and an overview of construction documents.			

8104350H	CARPENTRY FINISH HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Carpentry Exterior	
	Type of Credit:	CT	
This honors course offers extensive experience in the Carpentry Trade. In addition to fulfilling all requirements of Carpentry Finish, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	**ELECTRICITY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8727200⚡	8727210	Electricity 1	CT	HBI Pact Core
	8727220	Electricity 2	CT	HBI Electricity
	8727230	Electricity 3	CT	
	8727240	Electricity 4	CT	

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

**This program is only being offered at Mainland High School. Please do not add this program to a school's offerings. Contact the CTE Department if you have questions.

8727210	ELECTRICITY 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course enables students to develop the essential competencies for working in the electrical industry. These competencies include safety practices, direct-current electrical-circuit skills, appropriate communication and math skills, basic electricity and electric codes.			

8727220	ELECTRICITY 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Electricity 1	
	Type of Credit:	CT	
This course enables students to develop competencies related to math applications and analytical/trouble shooting skills in electricity.			

8727230	ELECTRICITY 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Electricity 2	
	Type of Credit:	CT	
This course provides students with electrical math skills.			

8727240	ELECTRICITY 4		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Electricity 3	
	Type of Credit:	CT	
This course enables students to develop the competencies needed for employment in the residential electrical industry. These competencies include employability, entrepreneurship, Alternating Current circuitry and troubleshooting residential electric circuits.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
8700400	8700400	Architecture and Construction Cooperative Education OJT
8700100	8700100	Architecture and Construction Directed Study*
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>		

8700400	ARCHITECTURE & CONSTRUCTION		Career Prep
	COOPERATIVE EDUCATION OJT		
	Offered:	Grade 10, 11, 12	
	Credit:	Multiple	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of an Architecture & Construction Career Prep Program	
Type of Credit:	CT		
This course provides an Architecture and Construction on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work performed.</i>			

8700100	ARCHITECTURE & CONSTRUCTION DIRECTED STUDY	
	Offered:	Grade 11, 12
	Credit:	Multiple
	Length:	Year
	Prerequisite:	Completion of an Architecture & Construction Career Prep Program
	Type of Credit:	CT
This course provides students with learning opportunities in a prescribed program of study within the Architecture and Construction cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Architecture and Construction career cluster.		

ARTS, A/V TECHNOLOGY & COMMUNICATION CLUSTER

PROGRAM NUMBER	DIGITAL DESIGN		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8209600✳	8209510	Digital Design 1	CT	CIW Multitmedia Specialist
	8209510H	Digital Design HONORS 1		
	8209520	Digital Design 2	CT	Adobe Certified Professional
	8209520H	Digital Design HONORS 2		
	8209530	Digital Design 3	CT	Visual Design: Photoshop and Illustrator or InDesign Bundle
	8209530H	Digital Design HONORS 3		
	8209540	Digital Design 4	CT	
	8209540H	Digital Design HONORS 4		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8209510	DIGITAL DESIGN 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Information Technology	
	Type of Credit:	CT	
This course is designed to develop the entry-level skills required for careers in digital design. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem-solving.			

8209510H	DIGITAL DESIGN 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Information Technology	
	Type of Credit:	CT	
This course is designed to develop the entry-level skills required for careers in digital design. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem-solving. In addition to fulfilling all requirements of Digital Design 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8209520	DIGITAL DESIGN 2		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Design 1 Honors	
	Type of Credit:	CT	
This course continues the development of entry-level skills required for careers in digital design. The content includes computer skills; digital publishing operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem solving. In addition to fulfilling all requirements of Digital Design 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8209520H	DIGITAL DESIGN 2 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Design 1 Honors	
	Type of Credit:	CT	
This course continues the development of entry-level skills required for careers in digital design. The content includes computer skills; digital publishing operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem solving.			

8209530	DIGITAL DESIGN 3		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Design 2 Honors	
	Type of Credit:	CT	
This course continues the development of industry-standard skills required for careers in digital design. The content includes the use of software and equipment to perform digital publishing and digital imaging activities. Students continue to learn about communication, collaboration and decision-making activities, critical thinking and problem solving.			

8209530H	DIGITAL DESIGN 3 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Design 2 Honors	
	Type of Credit:	CT	
This course continues the development of industry-standard skills required for careers in digital design. The content includes the use of software and equipment to perform digital publishing and digital imaging activities. Students continue to learn about communication, collaboration and decision-making activities, critical thinking and problem solving. In addition to fulfilling all requirements of Digital Design 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8209540	DIGITAL DESIGN 4		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Design 3 Honors	
	Type of Credit:	CT	
This course is designed to develop advanced industry-standard skills required for careers in digital design. The content includes the use of software and equipment, including digital video cameras and video/audio editing software.			

8209540H	DIGITAL DESIGN 4 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Digital Design 3 Honors CT	
This course is designed to develop advanced industry-standard skills required for careers in digital design. The content includes the use of software and equipment, including digital video cameras and video/audio editing software. In addition to fulfilling all requirements of Digital Design 4, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	DIGITAL VIDEO TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8201400⚙	8201410 8201410H	Digital Video Technology 1 Digital Video Technology 1 HONORS	CT	CIW Multimedia Specialist
	8201420 8201420H	Digital Video Technology 2 Digital Video Technology 2 HONORS	CT	Adobe Certified Professional Video Design: Premiere Pro & After Effects or Photoshop Bundle
	8201430 8201430H	Digital Video Technology 3 Digital Video Technology 3 HONORS	CT	
	8201440 8201440H	Digital Video Technology 4 Digital Video Technology 4 HONORS	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8201410	DIGITAL VIDEO TECHNOLOGY 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course provides students with an introduction to the digital video production process; content includes safe work practices, planning a production set, designing lighting plans, camera operation, and audio/ video recording, mixing, and editing.			

8201410H	DIGITAL VIDEO TECHNOLOGY 1 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course provides students with an introduction to the digital video production process; content includes safe work practices, planning a production set, designing lighting plans, camera operation, and audio/ video recording, mixing, and editing. In addition to fulfilling all requirements of Digital Video Technology 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8201420	DIGITAL VIDEO TECHNOLOGY 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 1 Honors	
	Type of Credit:	CT	
This course provides students with intermediate level instruction in the digital video production process.			

8201420H	DIGITAL VIDEO TECHNOLOGY 2 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 1 Honors	
	Type of Credit:	CT	
This course provides students with intermediate level instruction in the digital video production process. In addition to fulfilling all requirements of Digital Video Technology 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8201430	DIGITAL VIDEO TECHNOLOGY 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 2 Honors	
	Type of Credit:	CT	
This course provides students with the opportunity to participate in the digital video pre-production, production, and post-production processes.			

8201430H	DIGITAL VIDEO TECHNOLOGY 3 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 2 Honors	
	Type of Credit:	CT	
This course provides students with the opportunity to participate in the digital video pre-production, production, and post-production processes. In addition to fulfilling all requirements of Digital Video Technology 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8201440	DIGITAL VIDEO TECHNOLOGY 4		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 3 Honors	
	Type of Credit:	CT	
Students will demonstrate proficiency in all phases of the digital video production process (pre -production, production, post-production).			

8201440H	DIGITAL VIDEO TECHNOLOGY 4 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Video Technology 3 Honors	
	Type of Credit:	CT	
This honors course offers extensive experience in Digital Video Technology. In addition to fulfilling all requirements of Digital Video Technology 4, students participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	JOURNALISM AND MULTIMEDIA		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8771101⚙	8771110	Media Production	CT	Adobe Visual Design Bundle Adobe Video Bundle
	8209510	Digital Design 1	CT	
	8209510H	Digital Design 1 HONORS		
	8203001	Photojournalism	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8203000	FOUNDATIONS OF JOURNALISM		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to develop basic entry-level skills required for careers in the writing and editing industry.			

8771110	MEDIA PRODUCTIONS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Foundations of Journalism	
	Type of Credit:	CT	
This course is designed to develop basic entry-level skills required for careers in the communications industry.			

8209510	DIGITAL DESIGN 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Information Technology	
	Type of Credit:	CT	
This course is designed to develop the entry-level skills required for careers in digital design. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem-solving.			

8209510H	DIGITAL DESIGN 1 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Digital Information Technology CT	
This course is designed to develop the entry-level skills required for careers in digital design. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; digital imaging; communication, collaboration and decision-making activities; critical thinking and problem-solving. In addition to fulfilling all requirements of Digital Design 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8203001	PHOTOJOURNALISM		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Digital Design 1 Honors CT	
This course is designed to introduce students to basic photojournalism techniques, including camera operation, lighting, composition, photo manipulation, and storytelling for print and online publications. Through this course, the students will become familiar with Digital Single Lens Reflex (DSLR) and as well as cameras on mobile devices and learn how to create authentic journalistic documents. An emphasis will be placed on using the camera as a reporting tool and will cover industry expectations for professional photojournalists.			

PROGRAM NUMBER	TELEVISION PRODUCTION TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8201500❄	8201510	Television Production Technology 1	CT	CIW Multitmedia Specialist
	8201520	Television Production Technology 2	CT	Adobe Certified Professional Video Design: Premiere Pro & After Effects or Photoshop Bundle
	8201530	Television Production Technology 3	CT	
	8201530H	Television Production Technology 3 HONORS	CT	
	8201540	Television Production Technology 4	CT	
	8201540H	Television Production Technology 4 HONORS	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8201510	TELEVISION PRODUCTION TECHNOLOGY 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9,10 1.0 Year NONE CT	
This course is designed to introduce students to television production professions such as television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers. In addition, students will demonstrate an understanding of basic industry terminology and use basic television production equipment.			

8201520	TELEVISION PRODUCTION TECHNOLOGY 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Television Production Technology 1 CT	
This course is designed to introduce students to television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers. In addition, students will perform tasks related to television production such as writing broadcast scripts, performing lighting activities and operating editing software.			

8201530	TELEVISION PRODUCTION TECHNOLOGY 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Television Production Technology 1 & 2 CT	
This course is designed to prepare students for initial employment as television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers. Students will learn industry accepted skills, perform intermediate digital audio, video recording and editing operations.			

8201530H	TELEVISION PRODUCTION TECHNOLOGY 3 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11 , 12 1.0 Year Television Production Technology 1 & 2 CT	
This honors course offers extensive experience and prepares students for initial employment as television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers. Students will learn industry accepted skills, perform intermediate digital audio, video recording and editing operations. Students will demonstrate the correct use of equipment used in television production.			

8201540	TELEVISION PRODUCTION TECHNOLOGY 4		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 12 1.0 Year Television Production Technology 1-3 CT	
This course is designed to prepare students for employment as television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers. Students will function as a member of a production team and create a variety of television programming tasks related to the field.			

8201540H	TELEVISION PRODUCTION TECHNOLOGY 4 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 12 1.0 Year Television Production Technology 1-3 CT	
This honors course offers extensive experience for employment as television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
8200430	8200430	Arts, A/V Technology & Communication Cooperative Education OJT
8200400	8200400	Arts, A/V Technology & Communication Directed Study*
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>		

8200430	ARTS, A/V TECHNOLOGY & COMMUNICATION COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Enrollment in or Completion of an Arts, A/V, Technology & Communication Career Prep Program CT	
This course provides an Arts, A/V Technology and Communication on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work.</i>			

8200400	ARTS, A/V TECHNOLOGY & COMMUNICATION DIRECTED STUDY		
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of an Arts, A/V, Technology & Communication Career Prep Program CT	
This course provides students with learning opportunities in a prescribed program of study within the Arts, A/V Technology and Communication cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Arts, A/V Technology and Communication career cluster.			

BUSINESS MANAGEMENT & ADMINISTRATION CLUSTER

PROGRAM NUMBER	ACCOUNTING APPLICATIONS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8302100 ✱	8207310	Digital Information Technology	CT	HTML/ CSS & WordPress Certified Editor
	8203310 8203310H	Accounting Applications 1 Accounting Applications 1 HONORS	CT	Intuit Quickbooks Certified User
	8203320 8203320H	Accounting Applications 2 Accounting Applications 2 HONORS	CT	Intuit: Certified Bookkeeping Prof.
	8203330 8203330H	Accounting Applications 3 Accounting Applications 3 HONORS	CT	Intuit: Certified Bookkeeping Prof.
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.			

8203310	ACCOUNTING APPLICATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Information Technology	
	Type of Credit:	CT	
This course emphasizes double-entry accounting; methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets, incurrence of liabilities, and changes in equity; and the preparation of financial statements. The use of computers is required.			

8203310H	ACCOUNTING APPLICATIONS 1 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Digital Information Technology CT	
This honors course offers extensive experience in the accounting principles. In addition to fulfilling all requirements of Accounting Applications 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8203320	ACCOUNTING APPLICATIONS 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Accounting Applications 1 CT	
This course is designed to continue the study of accounting principles. The content includes voucher systems, cash receipts, petty cash, payroll records, and internal control systems. The use of computers is required.			

8203320H	ACCOUNTING APPLICATIONS 2 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Accounting Applications 1 CT	
This honors course offers extensive experience in the accounting principles. In addition to fulfilling all requirements of Accounting Applications 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8203330	ACCOUNTING APPLICATIONS 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Accounting Applications 2 CT	
This course continues the study of accounting principles and applies those principles to various entities. The content includes methods for determining the cost of merchandise inventory, general ledger account analysis, and the aging process. The use of computers is required.			

8203330H	ACCOUNTING APPLICATIONS 3 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Accounting Applications 2 CT	
This honors course offers extensive experience in the accounting principles. In addition to fulfilling all requirements of Accounting Applications 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	PROMOTIONAL ENTERPRISE		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8217100✳	8207310	Digital Information Technology	CT	ITS HTML/CSS Word Press Certified Editor
	8217110	Custom Promotional Layout Design	CT	Entrepreneurship & Small Business
	8217120	Promotional Design Management	CT	Adobe Certified Professional Visual Design: Photoshop & Illustrator or InDesign Bundle
	8217130	Custom Promotional Sales & Distribution Management	CT	
	8217140	Promotional Business Management & Supervision 1	CT	
	8217160	Legal Aspects of Promotional Industry Ownership	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course is designed to provide an introduction to information technology concepts and careers as well as the impact information technology has on the world, people, and industry and basic web design concepts. The content includes information technology career research; operating systems and software applications; electronic communications including e-mail and Internet services; basic HTML, DHTML, and XML web commands and design; and emerging technologies and web page design.			

8217110	CUSTOM PROMOTIONAL LAYOUT DESIGN		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course is designed to develop basic entry-level skills required for careers in the custom imprinted merchandise industry. The content includes computer skills, layout, design, measurement activities, and decision-making activities, digital imaging, sublimation activities, and digital embroidery activities, digital precision cutting activities, direct to garment printing activities, and sign making activities. After successful completion of Custom Promotional Layout Design students will be able to perform basic design and layout in predictable situations.			

8217120	PROMOTIONAL DESIGN MANAGEMENT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year None CT	
This course is designed to develop mid-level management skills required in the imprinted merchandise industry. The content includes real world production schedules for single lines of merchandise, management of production equipment, customer relations, and sales of imprinted merchandise and delivery of the product. This course is designed to be done in a real production environment through placement in a school-based imprinted merchandise enterprise or industry internship placement. After successful completion of Custom Promotional Sales and Distribution the student will be able to manage a production line from customer product design through delivery of final product.			

8217130	CUSTOM PROMOTIONAL SALES AND DISTRUBTION MANAGEMENT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year None CT	
This course is designed to develop mid-level management skills required in the imprinted merchandise industry. The content includes real world production schedules for single lines of merchandise, management of production equipment, customer relations, and sales of imprinted merchandise and delivery of the product. This course is designed to be done in a real production environment through placement in a school-based imprinted merchandise enterprise or industry internship placement. After successful completion of Custom Promotional Sales and Distribution the student will be able to manage a production line from customer product design through delivery of final product.			

8217140	PROMOTIONAL BUSINESS MANAGEMENT & SUPERVISION 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year None CT	
This course is designed to develop entry-level skills required in management and supervision in the imprinted merchandise industry. The content includes activities in equipment operation and maintenance, small business development, market evaluation, and economic effects on small businesses in the United States. After successful completion of Promotional Business Management and Supervision 1, students will be able to organize a small business in the imprinted merchandise industry.			

8217160	LEGAL ASPECTS OF PROMOTIONAL INDUSTRY OWNERSHIP		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year None CT	
This course is designed to develop knowledge of legal requirements and resources for owners of businesses in the imprinted merchandise industry. The content includes activities on incorporating, taxation, legal recourses, and free enterprise design. After successful completion of Legal Aspects of Promotional Industry Ownership, students will be able to set up a corporation in the imprinted merchandise industry.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8200410	8200410	Business Cooperative Education OJT	N/A
8200100	8200100	Business Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8200410	BUSINESS COOPERATIVE EDUCATION		Career Prep
	OJT		
	Offered:	Grade 10, 11, 12	
	Credit:	Multiple	
	Length:	Year	
	Prerequisite:	Completion of Business Education Career Prep Program	
	Type of Credit:	CT	
This course provides a Business Management and Administration on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement;a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work performed.</i>			

8200100	BUSINESS DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of Business Education Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Business Management and Administration cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Business Management and Administration career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES			
	Course Number	Course Name	Credit	Industry Certification
8500375	8500375	Blueprint for Professional Success	CT	Word Press Certified Editor
8207310	8207310	Emerging Technology in Business	CT	HTML/CSS Coding Specialist

8500375	BLUEPRINT FOR PROFESSIONAL SUCCESS	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This course is designed to prepare students for the workplace in the twenty-first century. The course includes developing human resources, work ethics, decision-making, balancing work and family, as well as other skills. These skills are often referred to as "business skills". Exploration of a variety of careers is highly recommended through job shadowing experience. The development of a portfolio provides a personal file and organizational tool for the student to transfer knowledge to a real-life experience.		

8207310	EMERGING TECHNOLOGY IN BUSINESS	
	Offered:	Grade 8
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This course provides instruction in electronic research methods; business communications including speaking, listening, writing, and telecommunicating; multimedia presentation skills; ethical considerations related to technology; and emerging technologies affecting business environments.		

EDUCATION & TRAINING CLUSTER

PROGRAM NUMBER	EARLY CHILDHOOD EDUCATION		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8405100 ☼	8405110	Early Childhood Education 1	CT	Intuit Entrepreneurship & Small Business
	8405120	Early Childhood Education 2	CT	
	8405130	Early Childhood Education 3	CT	
	8405130H	Early Childhood Education 3 HONORS		
	8405140 8405140H	Early Childhood Education 4 Early Childhood Education 4 HONORS	CT	Child Development Associate
*EQ=Equally Rigorous Science Course; CT = Meets Arts Requirement; CT = CTE Elective				

8405110	EARLY CHILDHOOD EDUCATION 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
The purpose of this course is to assist students to identify career and job opportunities; to maintain a safe, clean and healthy learning environment; to identify principles of child development; to identify age-appropriate physical, intellectual, social and emotional development activities; and to identify rules and regulations that govern child care.			

8405120	EARLY CHILDHOOD EDUCATION 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Early Childhood Education 1	
	Type of Credit:	CT	
The purpose of this course is to assist students to identify various observations and recording methods; to maintain a safe, clean and healthy learning environment; to guide physical, intellectual, social and emotional development activities; to assist with the food service program; to use appropriate guidance and discipline techniques, and to identify and report suspected child abuse and neglect.			

8405130	EARLY CHILDHOOD EDUCATION 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Early Childhood Education 2	
	Type of Credit:	CT	
The purpose of this course is to assist students to guide young children in physical, intellectual, social and emotional development activities; to demonstrate communication and employability skills and to develop and maintain a professional attitude toward child care.			

8405130H	EARLY CHILDHOOD EDUCATION 3 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Early Childhood Education 2	
	Type of Credit:	CT	
This honors course offers extensive experience in Child Care. In addition to fulfilling all requirements of Early Childhood Education 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8405140	EARLY CHILDHOOD EDUCATION 4		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Early Childhood Education 3	
	Type of Credit:	CT	
The purpose of this course is to assist students to guide young children in physical, intellectual, social and emotional development activities; to demonstrate communication and employability skills and to develop and maintain a professional attitude toward child care.			

8405140H	EARLY CHILDHOOD EDUCATION 4 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Early Childhood Education 3	
	Type of Credit:	CT	
This honors course offers extensive experience in Child Care. In addition to fulfilling all requirements of Early Childhood Education 4, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	PRINCIPLES OF TEACHING		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8909000 ⚙	8909010	Introduction to the Teaching Profession	CT	WordPress Certified Editor
	8909020	Human Growth and Development	CT	
	8909030	Foundations of Curriculum & Instruction	CT	
	8909040	Principles of Teaching Internship	CT	Florida Teacher Certification Examination (FTCE) - Professional Education Test
*EQ=Equally Rigorous Science Course; CT = Meets Arts Requirement; CT = CTE Elective				

8909010	INTRODUCTION TO THE TEACHING PROFESSION		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to develop competencies related to the role, regulations, and career path of teacher aides; the role of education; leadership and CTSO activities; interpersonal and communication skills; and educational-support tasks.			

8909020	HUMAN GROWTH & DEVELOPMENT		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Introduction to the Teaching Profession	
	Type of Credit:	CT	
This course is designed to develop competencies in the operation of audiovisual equipment; job-related math skills; test administration and grading; job-related computer applications; visual aids preparation; the supervision of student health and safety; and the reporting of child abuse and drug abuse. It also requires a teaching practicum experience that involves direct student contact.			

8909030	FOUNDATIONS OF CURRICULUM & INSTRUCTION		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Human Growth and Development	
	Type of Credit:	CT	
This course is designed to develop competencies related to supporting the learning activities of students, establishing and maintaining appropriate student behaviors, and supporting cooperative home-school relationships. It develops competencies in employability skills and entrepreneurship. It also requires the completion of the teaching practicum experience that involves direct contact with students.			

8909030H	FOUNDATIONS OF CURRICULUM & INSTRUCTION HONORS		Career
	Prep		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Human Growth and Development	
	Type of	CT	
	Credit:		
This honors course is designed to further develop and enhance curriculum priorities and support the learning activities of students Students establish and maintain appropriate student behaviors, and support the developmental needs of all children in a classroom environment. It develops competencies in employability skills and entrepreneurship. It also requires the completion of the teaching practicum experience that involves direct contact with students.			

8909040	PRINCIPLES OF TEACHING INTERNSHIP		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Foundations of Curriculum and Instruction	
	Type of Credit:	CT	
This course is designed to develop competencies related to employability skills; developing relationships between school and the home; intrapersonal skills and professionalism. During this course students must participate in and document a 50-hour practicum (this is in addition to the 25-hour practicum in Teacher Assisting 3). A formal observation of the student must be conducted by the instructor during the latter part of the practicum experience. The student must submit a completed portfolio to the instructor by the end of this course.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	INDUSTRY CERTIFICATION
8500410	8500410	Education & Training Cooperative Education OJT	N/A
8500100	8500100	Education & Training Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8500410	EDUCATION & TRAINING		Career Prep
	COOPERATIVE EDUCATION OJT		
	Offered:	Grade 10, 11, 12	
	Credit:	Multiple	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of an Education & Training Career Prep Program	
Type of Credit:	CT		
This course provides an Education and Training on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work.</i>			

8500100	EDUCATION & TRAINING	
	DIRECTED STUDY	
	Offered:	Grade 11, 12
	Credit:	Multiple
	Length:	Year
	Prerequisite:	Completion of an Education & Training Career Prep Program
	Type of Credit:	CT
This course provides students with learning opportunities in a prescribed program of study within the Education and Training cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Education and Training career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	INDUSTRY CERTIFICATION
8500310	8500310	Child Development	ServSafe
8500345	8500345	Family Dynamics	ServSafe
8502000	8502000	Life Management Skills	N/A
8500300	8500300	Parenting Skills	N/A

8500310	CHILD DEVELOPMENT	
	Offered:	Grade 9, 10, 11, 12
	Credit:	.5
	Length:	Semester
	Prerequisite:	None
	Type of Credit:	CT
This course emphasizes knowledge and skills needed to prepare students to understand the nature of child development from prenatal care through age six. The role of communication and guidance in the parent/child relationship are emphasized as well as basic needs and the principles of human development.		

8500345	FAMILY DYNAMICS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 .5 Semester None CT
This course is to prepare students for the roles, responsibilities and relationships essential to functional families and to understand the nature, function, and significance of human relationships within family and individual units.		

8502000	LIFE MANAGEMENT SKILLS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 .5 Semester None CT
The purpose of this course is to prepare students to make healthy choices regarding personal development and interpersonal relationships.		

8500300	PARENTING SKILLS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 .5 Semester None CT
This course is to prepare students for the multiple roles essential to becoming a model parent and to understand the dual roles as parents and providers. This course will also enhance their abilities to assist children to become effective citizens in a multicultural and technological society.		

ENGINEERING & TECHNOLOGY EDUCATION CLUSTER

PROGRAM NUMBER	ADVANCED AEROSPACE TECHNOLOGIES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9401200 ✳	9401210	Introduction to Space	CT	TBA
	9401220	Space Exploration & Utilization	CT	TBA
	9401230	Aerospace Design, Modeling & Simulation	CT	TBA
	9401240	Advanced Aerospace Mechanical Design	CT	TBA
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

9401210	INTRODUCTION TO SPACE	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This course is a basic study of the concepts, development, and application of space flight technology, emphasizing the U. S. role in current and future space operations. Topics include the Big Bang Theory, history of space flight, Space Shuttle operations and crew training, Commercial Space Applications, Spacecraft Systems, and the outlook for the future.		

9401220	SPACE EXPLORATION & UTILIZATION	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Introduction to Space
	Type of Credit:	CT
This course allows students to expand their knowledge of artificial intelligence and robotics with the emphasis on the application for future space exploration. Focus area includes space law as it applies to all national and international space agencies as well as commercial space corporations.		

9401230	AEROSPACE DESIGN, MODELING & SIMULATION	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Space Exploration & Utilization
	Type of Credit:	CT
This course provides students with instruction in the characteristics and evolution of technology, underlying principles of design, and fundamental knowledge and skills in the use of illustration and drafting software. Students will build Computer-aided Design (CAD) skills in 3D design and modelling using 3D design software that unifies design, engineering, electronics, and manufacturing into a single platform. These skills are needed to prepare for further education and careers in the Space Industry, Information Technology and Engineering specialties.		

9401240	ADVANCED AEROSPACE MECHANICAL DESIGN	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Aerospace Design, Modeling & Simulation
	Type of Credit:	CT
This capston course is intended to teach the student advanced Computer-Aided Design (CAD) and further honing their skills to be more beneficial for college and/or more marketable as an after high school career choice in the aerospace industry, specifically for Space Applications.		

PROGRAM NUMBER	AEROSPACE TECHNOLOGIES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8600080 ⚙️	8600580	Aerospace Technologies 1	EQ	AutoDesk Fusion 360
	8600580H	Aerospace Technologies 1 HONORS		
	8600680	Aerospace Technologies 2	EQ	Small UAS Safety
	8600680H	Aerospace Technologies 2 HONORS		
	8601780	Aerospace Technologies 3	EQ	Visual Line of Sight Systems/FAA Private Pilot
	8601780H	Aerospace Technologies 3 HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8600580	AEROSPACE TECHNOLOGIES 1	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	EQ
This course (the first of three in the aerospace program) is designed to familiarize students with a foundation of knowledge and technically-oriented experiences in the study of aerospace and its effect upon our lives and the choosing of an occupation. The content and activities include the study of entrepreneurship, safety, and leadership skills. The program focuses on transferable skills and stresses understanding and demonstrating the technological tools, machines, instruments, materials, processes and systems in business and industry.		

8600580H	AEROSPACE TECHNOLOGIES 1 HONORS	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	EQ
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Aerospace Technology 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600680	AEROSPACE TECHNOLOGIES 2	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aerospace Technology 1 EQ
This course (the second of three in the aerospace program) is designed to familiarize students with a foundation of knowledge and technically-oriented experiences in the study of aerospace and its effect upon our lives and the choosing of an occupation. The content and activities include the study of entrepreneurship, safety, and leadership skills. The program focuses on transferable skills and stresses understanding and demonstrating the technological tools, machines, instruments, materials, processes and systems in business and industry.		

8600680H	AEROSPACE TECHNOLOGIES 2 HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aerospace Technology 1 EQ
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Aerospace Technology 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8601780	AEROSPACE TECHNOLOGIES 3	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aerospace Technology 2 EQ
This course (the third of three in the aerospace program) is designed to familiarize students with a foundation of knowledge and technically-oriented experiences in the study of aerospace and its effect upon our lives and the choosing of an occupation. The content and activities include the study of entrepreneurship, safety, and leadership skills. The program focuses on transferable skills and stresses understanding and demonstrating the technological tools, machines, instruments, materials, processes and systems in business and industry.		

8601780H	AEROSPACE TECHNOLOGIES 3 HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aerospace Technology 2 EQ
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Aerospace Technology 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

PROGRAM NUMBER	APPLIED ENGINEERING TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8401100 ☼	8401110 8401110H	Applied Engineering Technology 1 Applied Engineering Technology 1 HONORS	CT	AutoDesk - Fusion 360
	8401120 8401120H	Applied Engineering Technology 2 Applied Engineering Technology 2 HONORS	CT	AutoDesk - AutoCAD
	8401130 8401130H	Applied Engineering Technology 3 Applied Engineering Technology 3 HONORS	CT	AutoDesk - Inventor
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8401110	APPLIED ENGINEERING TECHNOLOGY 1	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This course helps students understand the field of engineering/engineering technology and prepares them for postsecondary engineering programs by developing a more in-depth mastery of the associated mathematics, science, and technology knowledge and skills. The course also includes essential concepts of technology and design, as well as concerns about the social and political implications of technological change.		

8401110H	APPLIED ENGINEERING TECHNOLOGY 1 HONORS	
	Offered:	Grade 9, 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Applied Engineering Technology 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8401120	APPLIED ENGINEERING TECHNOLOGY 2	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Applied Engineering Technology 1
	Type of Credit:	CT
This course provides students with opportunities to further their mastery of engineering-related math and science principles to design solutions to real world problems. The course also includes a more in-depth look into the relationship between technology and design.		

8401120H	APPLIED ENGINEERING TECHNOLOGY 2 HONORS	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Applied Engineering Technology 1
	Type of Credit:	CT
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Applied Engineering Technology 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8401130	APPLIED ENGINEERING TECHNOLOGY 3	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Applied Engineering Technology 2
	Type of Credit:	CT
This course provides opportunities for students to apply their acquired knowledge and skills in engineering scenarios. The course features multiple options for providing context-based projects oriented to specific fields of engineering. This feature enables instruction in complex projects involving multi-faceted project teams by providing instruction oriented to four key engineering disciplines: mechanical, electrical, civil, and environmental.		

8401130H	APPLIED ENGINEERING TECHNOLOGY 3 HONORS	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Applied Engineering Technology 2
	Type of Credit:	CT
This course provides opportunities for students to apply their acquired knowledge and skills in engineering scenarios. The course features multiple options for providing context-based projects oriented to specific fields of engineering. This feature enables instruction in complex projects involving multi-faceted project teams by providing instruction oriented to four key engineering disciplines: mechanical, electrical, civil, and environmental. This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Applied Engineering Technology 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

PROGRAM NUMBER	APPLIED ROBOTICS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9410100 ☼	9410110	Foundations of Robotics	CT	AutoDesk Fusion 360
	9410110H	Foundations of Robotics HONORS		
	9410120	Robotic Design Essentials	CT	RECF: Pre-Engineering
	9410120H	Robotic Design Essentials HONORS		
	9410130	Robotic Systems	CT	RECF: Robotics
	9410130H	Robotic Systems HONORS		
	9410140	Robotic Applications Capstone	CT	
	9410140H	Robotic Applications Capstone HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

9410110	FOUNDATIONS OF ROBOTICS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT
This course provides students with a foundation in content and skills associated with robotics and automation, including; artificial intelligence, electronics, physics, and principles of engineering.		

9410110H	FOUNDATIONS OF ROBOTICS HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Foundation of Robotics, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

9410120	ROBOTIC DESIGN ESSENTIALS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Foundations of Robotics CT
This course provides students with content and skills essential to the design and operation of robotics, including artificial intelligence, sensors, electronic devices, engineering technologies, motion physics, electrical motors, programming, simulation and modeling, and critical thinking skills.		

9410120H	ROBOTIC DESIGN ESSENTIALS HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Foundations of Robotics CT
This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Robotic Design Essentials, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

9410130	ROBOTIC SYSTEMS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Robotic Design Essentials CT
This course provides students with extended content and skills essential to the design and operation of robotic systems, including artificial intelligence, specialized sensors, electronic applications, engineering technologies, environmental physics, manufacturing, topographical considerations, programming, communications, simulation and modeling, and critical thinking skills.		

9410130H	ROBOTIC SYSTEMS HONORS	
	Offered:	Grade 10, 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Robotic Design Essentials
	Type of Credit:	CT
This course provides students with extended content and skills essential to the design and operation of robotic systems, including artificial intelligence, specialized sensors, electronic applications, engineering technologies, environmental physics, manufacturing, topographical considerations, programming, communications, simulation and modeling, and critical thinking skills. This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Robotic Systems, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

9410140	ROBOTIC APPLICATIONS CAPSTONE	
	Offered:	Grade 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Robotic Systems
	Type of Credit:	CT
This course provides students with extended content and skills essential to the design and operation of autonomous robotic systems in the context of a capstone project.		

9410140H	ROBOTIC APPLICATIONS CAPSTONE HONORS	
	Offered:	Grade 11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Robotic Design Essentials
	Type of Credit:	CT
This course provides students with extended content and skills essential to the design and operation of autonomous robotic systems in the context of a capstone project. This honors course offers extensive experience in Engineering & Technology Education. In addition to fulfilling all requirements of Robotic Applications Capstone, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

PROGRAM NUMBER	ARTIFICIAL INTELLIGENCE (AI)		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9401100 ⚙️	9401010	Artificial Intelligence in the World	CT	
	9401020	Applications of Artificial Intelligence	CT	Microsoft Certified: Azure AI Fundamentals
	9401030	Procedural Programming	CT	ITS Python
	9401040	Foundations of Machine Learning	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

9401010	ARTIFICIAL INTELLIGENCE IN THE WORLD	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 .5 Semester None CT
This course introduces students to the principles of Artificial Intelligence (AI). The course defines “Intelligent Behavior”, describes the relationship between AI and computer science, explains the history of AI and showcases applications of AI in the real world. Students will explore the role of data in AI applications and the algorithms which guide AI decision making. Students will learn about the role of perception in AI and how AI agents use information in decision making. Students will engage in hands-on activities related to use of AI in machine learning as well as ethics in AI applications.		

9401020	APPLICATIONS OF ARTIFICIAL INTELLIGENCE	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 .5 Semester Artificial Intelligence in the World CT
This course assists students in deepening understanding for application of AI and to explore methods and tools utilized to build AI models. The content includes but is not limited to foundational knowledge and skills related to methods and software used to develop AI applications using data sets. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.		

9401030	PROCEDURAL PROGRAMMING	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Applications of Artificial Intelligence CT
This course continues the study of computer programming concepts with a focus on the creation of software applications employing procedural programming techniques.		

9401040	FOUNDATIONS OF MACHINE LEARNING	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Procedural Programming CT
This course provides students with core foundational knowledge to deepen understanding of machine learning (ML) practices and applications. This course builds understanding of the mathematical foundation needed to create algorithms for use in artificial intelligence and machine learning. The content includes but is not limited to foundational knowledge and skills related to computer coding and software development. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.		

PROGRAM NUMBER	**ENGINEERING PATHWAYS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9400300 ☼	8600550 8600550H	Intro to Engineering Design Intro to Engineering Design HONORS	CT	AutoDesk - Fusion 360
	8600520 8600520H	Principles of Engineering Principles of Engineering HONORS	CT	
	8600530 8600530H	Digital Electronics Digital Electronics HONORS	CT	
	8600620 8600620H	Aerospace Engineering Aerospace Engineering HONORS	CT	AutoDesk - Inventor
	8600590 8600590H	Civil Engineering & Architecture Civil Engineering & Architecture HONORS	CT	AutoDesk - Revit
	8600560 8600560H	Computer Integrated Manufacturing Computer Integrated Manufacturing HONORS	CT	
	8600650 8600650H	Engineering Design & Development Engineering Design & Development HONORS	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement **This is a course in the Project Lead the Way program.				

8600550	INTRODUCTION TO ENGINEERING DESIGN	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT
This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software.		

8600550H	INTRODUCTION TO ENGINEERING DESIGN HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Introduction to Engineering, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600520	PRINCIPLES OF ENGINEERING	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Introduction to Engineering Design CT
This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.		

8600520H	PRINCIPLES OF ENGINEERING HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Introduction to Engineering Design CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Principles of Engineering, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600530	DIGITAL ELECTRONICS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Principles of Engineering CT
This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.		

8600530H	DIGITAL ELECTRONICS HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Principles of Engineering CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Digital Electronics, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600620	AEROSPACE ENGINEERING	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This course is intended to engage students in analyzing and designing solutions to engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, structures and materials, and systems engineering. Students work in teams, exploring hands-on projects and activities to learn the characteristics of aerospace engineering and work on major problems to be exposed to the various situations that aerospace engineers face in their careers.		

8600620H	AEROSPACE ENGINEERING HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Aerospace Engineering, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600590	CIVIL ENGINEERING AND ARCHITECTURE	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as the Roles of Civil Engineers and Architects, Project Planning, Site Planning, Building Design, and Project Documentation and Presentation.		

8600590H	CIVIL ENGINEERING AND ARCHITECTURE HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Civil Engineering and Architecture, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600560	COMPUTER INTEGRATED MANUFACTURING	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design, and Design and Drawing for Production. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included.		

8600560H	COMPUTER INTEGRATED MANUFACTURING HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Computer Integrated Manufacturing, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8600650	ENGINEERING DESIGN AND DEVELOPMENT	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Principles of Engineering CT
This course provides students with an advanced understanding of the knowledge, human relations, and technological skills found today in technical profession.		

8600650H	ENGINEERING DESIGN AND DEVELOPMENT HONORS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Principles of Engineering CT
This honors course offers extensive experience in Engineering. In addition to fulfilling all requirements of Engineering Design and Development, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8601900	8601900	Advanced Technology Applications*	Multiple/
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8601900	ADVANCED TECHNOLOGY APPLICATIONS	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year See Description Below CT
The purpose of this course is to provide students with the opportunity to develop a project from “vision” to “reality.” Working in teams to design, engineer, manufacture, construct, test, redesign, test again, and then produce a finished “project.” This would involve using ALL of the knowledge previously learned, not only in engineering & technology education but across the curriculum. Advanced Applications in Technology may be taken by a student for one or more semesters. <i>A student may earn multiple credits in this course.</i>		

FINANCE CLUSTER

PROGRAM NUMBER	FINANCE		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8815100 ☼	8815150	Business Communication & Technology OR	CT	Intuit Entrepreneurship & Small Business
	8207310	Digital Information Technology	CT	Intuit QuickBooks Certified User
	8203310	Accounting Applications 1	CT	Intuit QuickBooks Certified User
	8203310H	Accounting Applications 1 HONORS	CT	Intuit QuickBooks Certified User
	8815110	Economics & Financial Services	CT	Intuit Entrepreneurship & Small Business
	8815110H	Economics & Financial Services HONORS	CT	Intuit Entrepreneurship & Small Business
	8815120	Personal Finance	CT	Intuit Entrepreneurship & Small Business
	8815120H	Personal Finance HONORS	CT	Intuit Entrepreneurship & Small Business
	8815130	Financial Internship	CT	

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

8815150	BUSINESS COMMUNICATION & TECHNOLOGY		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	

This course is designed to provide an overview of current business, finance and information systems and trends and to introduce students to the foundations required for today's business environments. Emphasis is placed on developing proficiency with computer applications, so that they may be used as communication tools for enhancing personal and work place proficiency in an information-based society. This also includes proficiency with computers using databases, spreadsheets, presentation applications, financial and tax software applications and the integration of these programs using software that meets industry standards.

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	

This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.

8203310	ACCOUNTING APPLICATIONS 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Business Communication & Technology or Digital Information Technology CT	
This course emphasizes double-entry accounting; methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets, incurrence of liabilities, and changes in equity; and the preparation of financial statements. The use of computers is required.			

8203310H	ACCOUNTING APPLICATIONS 1 HONORS		Career Prep
	Offered:	Credit:	Grade 10, 11, 12
	Length:		1.0
	Prerequisite:		Year
			Business Communication & Technology or Digital Information Technology
	Type of Credit:		CT
This honors course offers extensive experience in the accounting principles. In addition to fulfilling all requirements of Accounting Applications 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8815110	ECONOMICS AND FINANCIAL SERVICES		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Accounting Applications 1 CT	
This course presents basic topics in economics, including the principles and practices of banking, credit, and consumer lending in the United States. Additional emphasis is placed on money, credit and banking, economic growth and stability, characteristics of different economicsystems and institutions. Students become familiar with the major functions of banks and other financial intermediaries, central banking by the Federal Reserve System, and modern trends in the finance industry. The students are also introduced to credit functions, principles of credit risk evaluation, loan creation, debt collection, and stocks and bonds.			

8815110H	ECONOMICS AND FINANCIAL SERVICES HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Accounting Applications 1 CT	
This honors course offers extensive experience in Finance. In addition to fulfilling all requirements of Economics and Financial Services, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8815120	PERSONAL FINANCE		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Economics & Financial Services	
	Type of Credit:	CT	
This course is designed to develop an awareness of the need for care and organization in planning for the wise use of economic resources and financial products available through a study of savings, credit, insurance, banking, and financial goals. Students are provided with the concepts necessary to understand international trade as well as career opportunities offered by lending institutions.			

8815120H	PERSONAL FINANCE HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Economics & Financial Services	
	Type of Credit:	CT	
This honors course offers extensive experience in Finance. In addition to fulfilling all requirements in Personal Finance, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8815130	FINANCIAL INTERNSHIP		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Economics & Financial Services	
	Type of Credit:	CT	
This course provides students with authentic learning experiences in which they demonstrate human relations, technical, communication, and career development skills through entry level employment in the financial services industry. Through hands-on project management, major tasks outlined in a training plan, mentors supervise student learning in specific skill attainment and professional development. Students earn high school credit and financial compensation.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8501420	8501420	Finance Cooperative Education OJT	N/A
8501000	8501000	Finance Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8501420	FINANCE	
	COOPERATIVE EDUCATION OJT Career Prep	
	Offered:	Grade 10, 11, 12
	Credit:	Multiple
	Length:	Year
	Prerequisite:	Enrollment in or Completion of a Finance Career Prep Program
	Type of Credit:	CT
This course provides the on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.		

8501000	FINANCE	
	DIRECTED STUDY	
	Offered:	Grade 11, 12
	Credit:	Multiple
	Length:	Year
	Prerequisite:	Completion of a Finance Career Prep Program
	Type of Credit:	CT
This course provides students with learning opportunities in a prescribed program of study within the Finance cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Finance career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8500120	8500120	Personal Financial Literacy	N/A

8500120	PERSONAL FINANCIAL LITERACY	
	Offered:	Grade 9, 10, 11, 12
	Credit:	.5
	Length:	Semester
	Prerequisite:	None
	Type of Credit:	PL
The purpose of this course is to give students an overview of personal and family finance concepts including the American economic system, personal and family management of resources including income, money management, saving and investing, spending and credit, the role of financial institutions and the consumer, consumer information and taxation and financial planning.		

GOVERNMENT & PUBLIC ADMINISTRATION CLUSTER

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8601420	8601420	Government & Public Administration Cooperative Education OJT	N/A
8603000	8603000	Government & Public Administration Directed Study*	N/A
*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.			

8601420	GOVERNMENT & PUBLIC ADMINISTRATION COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10,11, 12 Multiple Year Enrollment in or Completion of a Government & Public Administration Career Prep Program CT	
This course provides the Government and Public Administration on-the-job training component for when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: a training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.			

8603000	GOVERNMENT & PUBLIC ADMINISTRATION DIRECTED STUDY		
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of a Government & Public Administration Career Prep Program CT	
This course provides students with learning opportunities in a prescribed program of study within the Government and Public Administration cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Government and Public Administration career cluster.			

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8900330	8900330	Principles of Public Service	N/A

8900330	PRINCIPLES OF PUBLIC SERVICE	
	Offered:	Grade 9,10,11, 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	None
	Type of Credit:	CT
This course is designed to familiarize a student with careers in the public service professions. Emphasis also in money management, employability/entrepreneurship skills, technology, math/communication skills, and basic first aid/CPR as well as awareness of blood borne pathogens.		

HEALTH SCIENCE CLUSTER

PROGRAM NUMBER	ALLIED HEALTH ASSISTING		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8417130 ✨	8417100 8417100H	** Health Science Anatomy & Physiology ** Health Science Anatomy & Physiology HONORS	EQ	
	8417110 8417110H	Health Science Foundations Health Science Foundations HONORS	CT	Certified Medical Administrative Assistant (CMAA)
	8417131	Allied Health Assisting 3	CT	EKG Technician Certified Patient Care Technician (CPCT)

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

**The course Anatomy and Physiology (2000350) may be substituted for the course Health Science Anatomy & Physiology (8417100); Anatomy and Physiology Honors (2000360H) may be substituted for the course Health Science Anatomy & Physiology Honors (8417100H).

8417100	HEALTH SCIENCE ANATOMY & PHYSIOLOGY		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

8417100	HEALTH SCIENCE ANATOMY & PHYSIOLOGY HONORS		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	

This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Anatomy & Physiology, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.

8417110	HEALTH SCIENCE FOUNDATIONS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Health Science Anatomy & Physiology CT	
This course is part of the Secondary Health Core designed to provide the student with an in-depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem-solving skills. Students may shadow professionals throughout the course.			

8417110H	HEALTH SCIENCE FOUNDATIONS HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10,11,12 1.0 Year Health Science Anatomy & Physiology CT	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Foundations, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8417131	ALLIED HEALTH ASSISTING 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11,12 1.0 Year Health Science Foundations CT	
In this course students will perform skills representative of one to three areas of allied health care in the laboratory and clinical settings. Major areas of allied health are defined as physical therapy, emergency, radiation, laboratory and respiratory medicine, and occupational therapy. Other areas of health, medicine, dentistry, or veterinary may be included with instructor provided competencies.			

PROGRAM NUMBER	BIOMEDICAL SCIENCES		CREDIT TYPE *	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8708100 ✨	8708110 8708110H	Principles of Biomedical Sciences Principles of Biomedical Sciences HONORS	EQ	
	8708120 8708120H	Human Body Systems Human Body Systems HONORS	EQ	
	8708130 8708130H	Medical Interventions Medical Interventions HONORS	EQ	Certified Medical Administrative Assistant (CMAA)
	8708140 8708140H	Biomedical Innovation Biomedical Innovation HONORS	CT	BACE
<i>*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement</i>				

8708110	PRINCIPLES OF BIOMEDICAL SCIENCES		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
Students investigate the human body systems and various health conditions. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. Students are introduced to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated.			

8708110H	PRINCIPLES OF BIOMEDICAL SCIENCES HONORS		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Principles of Biomedical Sciences, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8708120	HUMAN BODY SYSTEMS		Career Prep
	Offered:	Grade 10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Principles of Biomedical Sciences	
	Type of Credit:	EQ	
Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries.			

8708120H	HUMAN BODY SYSTEMS HONORS		Career Prep
	Offered:	Grade 10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Principles of Biomedical Sciences	
	Type of Credit:	EQ	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Human Body Systems, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8708130	MEDICAL INTERVENTIONS		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Human Body Systems	
	Type of Credit:	EQ	
Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.			

8708130H	MEDICAL INTERVENTIONS HONORS		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Human Body Systems	
	Type of Credit:	EQ	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Medical Interventions, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8708140	BIOMEDICAL INNOVATION		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Medical Interventions	
	Type of Credit:	CT	
In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health.			

8708140H	BIOMEDICAL INNOVATION HONORS		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Medical Interventions	
	Type of Credit:	CT	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Biomedical Innovation, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	EMERGENCY MEDICAL RESPONDER		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8417170 ☼	8417100 8417100H	** Health Science Anatomy & Physiology ** Health Science Anatomy & Physiology HONORS	EQ	
	8417110 8417110H	Health Science Foundations Health Science Foundations HONORS	CT	Certified Medical Administrative Assistant (CMAA)
	8417171 8417171H	Emergency Medical Responder 3 Emergency Medical Responder 3 HONORS	CT	EKG Technician Certified Patient Care Technician (CPCT)
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				
**The course Anatomy and Physiology (2000350) may be substituted for the course Health Science Anatomy & Physiology (8417100); Anatomy and Physiology Honors (2000360H) may be substituted for the course Health Science Anatomy & Physiology Honors (8417100H).				

8417100	HEALTH SCIENCE ANATOMY & PHYSIOLOGY		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.			

8417100H	HEALTH SCIENCE ANATOMY & PHYSIOLOGY HONORS		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	EQ	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Anatomy & Physiology, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8417110	HEALTH SCIENCE FOUNDATIONS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Health Science Anatomy & Physiology CT	
This course is part of the Secondary Health Core designed to provide the student with an in-depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills.			

use of technology, ethics and the development of critical thinking and problem-solving skills. Students may shadow professionals throughout the course.

8417110H	HEALTH SCIENCE FOUNDATIONS HONORS		Career Prep
	Offered:	Grade 10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Health Science Anatomy & Physiology	
	Type of Credit:	CT	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Foundations, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8417171	EMERGENCY MEDICAL RESPONDER		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Health Science Foundations	
	Type of Credit:	CT	
This course prepares students to be employed as Emergency Medical Responders. Content includes, but not limited to, identifying and practicing within the appropriate scope of practice for an Emergency Medical Responder, demonstrating correct medical procedures for various emergency situations, proficiency in the appropriate instruments used, as well as a foundation in the musculo-skeletal system of the body.			

8417171H	EMERGENCY MEDICAL RESPONDER HONORS		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Health Science Foundations	
	Type of Credit:	CT	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Emergency Medical Responder, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	NURSING ASSISTANT		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8417210 ☼	8417100 8417100H	** Health Science Anatomy & Physiology ** Health Science Anatomy & Physiology HONORS	EQ	
	8417110 8417110H	Health Science Foundations Health Science Foundations HONORS	CT	Certified Medical Administrative Assistant (CMAA)
	8417211 8417211H	Nursing Assistant 3 Nursing Assistant 3 HONORS	CT	EKG Technician (CET) Certified Nursing Assistant (CNA)
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				
**The course Anatomy and Physiology (2000350) may be substituted for the course Health Science Anatomy & Physiology (8417100); Anatomy and Physiology Honors (2000360H) may be substituted for the course Health Science Anatomy & Physiology Honors (8417100H).				

8417100	HEALTH SCIENCE ANATOMY & PHYSIOLOGY		Career Prep	
	Offered:	Grade 9,10,11,12		
	Credit:	1.0		
	Length:	Year		
	Prerequisite:	None		
	Type of Credit:	EQ		

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

8417100H	HEALTH SCIENCE ANATOMY & PHYSIOLOGY HONORS		Career Prep	
	Offered:	Grade 9,10,11,12		
	Credit:	1.0		
	Length:	Year		
	Prerequisite:	None		
	Type of Credit:	EQ		

This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Anatomy & Physiology, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.

8417110	HEALTH SCIENCE FOUNDATIONS		Career Prep	
	Offered:	Grade 10, 11, 12		
	Credit:	1.0		
	Length:	Year		
	Prerequisite:	Health Science Anatomy & Physiology		
	Type of Credit:	CT		

This course is part of the Secondary Health Core designed to provide the student with an in-depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem-solving skills. Students may shadow professionals throughout the course.

8417110H	HEALTH SCIENCE FOUNDATIONS HONORS		Career Prep
	Offered:	Grade 10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Health Science Anatomy & Physiology	
	Type of Credit:	CT	
This honors course offers extensive experience in Health Occupations. In addition to fulfilling all requirements of Health Science Foundations, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8417211	NURSING ASSISTANT 3		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Health Science Foundations	
	Type of Credit:	CT	
This is a course designed to prepare the student to provide/assist with all aspects of activities of daily living for the adult patient in both hospital and nursing home settings. The course, which is taught by a registered nurse, includes didactic instruction, skills practice in the laboratory and clinical experience. Emphasis is also placed on the development of communication, interpersonal, problem solving and critical thinking skills.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8400410	8400410	Health Science Cooperative Education OJT	N/A
8400100	8400100	Health Science Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8400410	HEALTH SCIENCE		Career Prep
	COOPERATIVE EDUCATION OJT		
	Offered:	Grade 10,11,12	
	Credit:	Multiple	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of a Health Science Career Prep Program	
	Type of Credit:	CT	
This course provides a Health Science on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work.</i>			

8400100	HEALTH SCIENCE DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11,12 Multiple Year Completion of a Health Science Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Health Science cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Health Science career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8400320	8400320	Medical Skills & Services	N/A

8400320	MEDICAL SKILLS & SERVICES	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9,10,11,12 1.0 Year None CT
This course provides students with practical generic skills in health science education. The student will be able to describe services by provided by health occupations career clusters; demonstrate basic health skills, including first aid and CPR; understand responsible consumer decision making regarding health screening and health care management; discuss legal aspects for the health consumer; and identify the use of computers and technology in the health care field.		

HOSPITALITY & TOURISM CLUSTER

PROGRAM NUMBER	CULINARY ARTS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8800500 ✨	8800510	Culinary Arts 1	CT	ServSafe
	8800520	Culinary Arts 2	CT	Certified Food Safety Manager
	8800530 8800530H	Culinary Arts 3 Culinary Arts 3 HONORS	CT	
	8800540 8800540H	**TRACK 1: Culinary Arts 4 - <i>Culinary and Hospitality Management</i> Culinary Arts 4 – <i>Culinary and Hospitality Management</i> HONORS	CT	ServSafe
	8800550 8800550H	**TRACK 2: Culinary Arts 4 - <i>Advanced Baking Techniques</i> Culinary Arts 4 - <i>Advanced Baking Techniques</i> HONORS	CT	
	8800560 8800560H	**TRACK 3: Culinary Arts 4 - <i>Gastronomy and Garde Manger</i> Culinary Arts 4 - <i>Gastronomy and Garde Manger</i> HONORS	CT	

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

**Culinary 4 offers multiple tracks. Please select one area of concentration (each track is a year-long course).

8800510	CULINARY ARTS 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course is designed to provide students with competencies basic to a cluster of occupations in the food service industry and to develop skills, knowledge, and attitude for success and advancement in a specialized occupational proficiency program. Course content includes employability skills, qualifications and career opportunities; introduction to operational procedures; basics of nutrition; characteristics and functions of types of food service establishments; safety, sanitation, security, and storage procedures; identifications, use, care and storage of commercial tools and equipment; cooking terms and vocabulary; standard and metric measurements; food preparation; and rules and regulations governing the food industry.			

8800520	CULINARY ARTS 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Culinary Arts 1 CT	
This course has increased laboratory instruction and activities so students may develop their skills in using commercial equipment and tools safely and quickly in the preparation of food. Instructional units include planning, scheduling, and simplifying work patterns; cost and portion control; customer relations; management of time, energy, space; and using standard recipes.			

8800530	CULINARY ARTS 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Culinary Arts 2 CT	
This course includes content in the preparation and presentation of the food that has been prepared; preserving the nutritive values of food; following standard recipes for quality control; serving quantity foods; receiving, storing, and issuing foods and supplies; taking inventories, and keeping records; and maintaining clean food preparation and service areas.			

8800530H	CULINARY ARTS 3 HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Culinary Arts 2 CT	
This honors course offers extensive experience in culinary arts. In addition to fulfilling all requirements of Culinary Arts 3, students participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8800540	CULINARY ARTS 4/TRACK 1		Career Prep
	CULINARY & HOSPITALITY MANAGEMENT		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This course provides opportunities for students to apply their acquired knowledge and skills in culinary related scenarios. Track 1 focuses on Culinary and Hospitality Management. This is a culminating course to develop advanced culinary techniques and skills. Students learn using modern technology and culinary trends. To complete the program, students must complete either Track 1 or Track 2 or Track 3. Students may complete more than one track.			

8800540H	CULINARY ARTS 4 HONORS/TRACK 1		Career Prep
	CULINARY & HOSPITALITY MANAGEMENT		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This honors course offers extensive experience in culinary arts. In addition to fulfilling all requirements of Culinary Arts 4/Track 1, students participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8800550	CULINARY ARTS 4/TRACK 2		Career Prep
	ADVANCED BAKING TECHNIQUES		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This course provides opportunities for students to apply their acquired knowledge and skills in culinary related scenarios. This feature enables instruction in three key culinary disciplines. Track 2 focuses on Advanced Baking Techniques. This is a culminating course to develop advanced culinary techniques and skills. Students learn using modern technology and culinary trends. To complete the program, students must complete either Track 1 or Track 2 or Track 3. Students may complete more than one track.			

8800550H	CULINARY ARTS 4 HONORS/TRACK 2		Career Prep
	ADVANCED BAKING TECHNIQUES		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This honors course offers extensive experience in culinary arts. In addition to fulfilling all requirements of Culinary Arts 4/Track 2, students participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8800560	CULINARY ARTS 4/TRACK 3		Career Prep
	GASTRONOMY & GARDE MANGER		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This course provides opportunities for students to apply their acquired knowledge and skills in culinary related scenarios. This feature enables instruction in three key culinary disciplines. Track 3 focuses on Gastronomy and Garde Manger Skills. This is a culminating course to develop advanced culinary techniques and skills. Students learn using modern technology and culinary trends. To complete the program, students must complete either Track 1 or Track 2 or Track 3. Students may complete more than one track.			

8800560H	CULINARY ARTS 4 HONORS/TRACK 3		Career Prep
	GASTRONOMY & GARDE MANGER		
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Culinary Arts 3	
	Type of Credit:	CT	
This honors course offers extensive experience in culinary arts. In addition to fulfilling all requirements of Culinary Arts 4/Track 3, students participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	HOSPITALITY AND TOURISM MANAGEMENT		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8703100 ☼	8850110	Introduction to Hospitality & Tourism	CT	ServSafe
	8703110	Technology for Hospitality & Tourism	CT	
	8703120	Hospitality & Tourism Marketing Management	CT	
	8845130	Hospitality & Tourism Internship	CT	
	8703130	Hospitality & Tourism Entrepreneurship	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8850110	INTRODUCTION TO HOSPITALITY & TOURISM		Career Prep
	Offered:	Grade 9,10,11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course introduces students to the skills necessary for success in the hospitality and tourism industry. Students will also have the opportunity to learn hospitality and tourism terminology and the mathematical, economic, marketing, and sales fundamentals of the industry.			

8703120	TECHNOLOGY FOR HOSPITALITY & TOURISM		Career Prep
	Offered:	Grade 10,11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Introduction to Hospitality & Tourism	
	Type of Credit:	CT	
This course is designed to provide an introduction to computer technology and to develop entry-level skills for computer-related careers in the hospitality & tourism industry.			

8703130	HOSPITALITY & TOURISM MARKETING MANAGEMENT		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Technology for Hospitality & Tourism	
	Type of Credit:	CT	
This course provides students necessary career specific instruction in hospitality and tourism marketing management. Students will learn sales and management techniques, marketing principles, and entrepreneurship skills necessary to succeed in the hospitality and tourism industry. This course incorporates marketing and management principles and procedures of the hospitality and tourism industry as well as employment qualifications and opportunities.			

8845130	HOSPITALITY & TOURISM INTERNSHIP		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Hospitality & Tourism Marketing Management	
	Type of Credit:	CT	
This course provides students the opportunity to demonstrate human relations, communications, and employability skills necessary for entry-level employment in the hospitality & tourism industry. Additionally, it will enhance the instruction and competencies developed through classroom instruction.			

8703130	HOSPITALITY & TOURISM ENTREPRENEURSHIP		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Hospitality & Tourism Internship	
	Type of Credit:	CT	
This course provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. In addition, this course is designed so that performance standards meet employer expectations, enhancing the employability of students.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8800420	8800420	Hospitality & Tourism Cooperative Education OJT	N/A
8801000	8801000	Hospitality & Tourism Directed Study*	N/A
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>			

8800420	HOSPITALITY & TOURISM COOPERATIVE EDUCATION OJT		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	Multiple	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of a Hospitality & Tourism Career Prep Program	
	Type of Credit:	CT	
This course provides a Hospitality and Tourism on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work performed.</i>			

8801000	HOSPITALITY & TOURISM DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of Hospitality & Tourism Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Hospitality and Tourism cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Hospitality and Tourism career cluster.		

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8500355	8500355	Nutrition & Wellness	ServSafe
8500390	8500390	Principles of Food	ServSafe

8500355	NUTRITION & WELLNESS	
	Offered:	Grade 9, 10, 11, 12
	Credit:	.5
	Length:	Semester
	Prerequisite:	None
	Type of Credit:	CT
This course is designed to prepare students to understand the relationship between nutrition and wellness. The program also provides for selection, preparation, service, and storage of foods. It allows students to use technology to practice meal management techniques directed toward nutritional food choices based on the life cycle. This course will provide an awareness of consumer issues relating to health and wellness.		

8500390	PRINCIPLES OF FOOD	
	Offered:	Grade 9, 10, 11, 12
	Credit:	.5
	Length:	Semester
	Prerequisite:	None
	Type of Credit:	CT
This course introduces students to the essential skills and knowledge needed for success in food preparation, selection, and service. This hands-on course emphasizes leadership in the family, workplace, and community while exploring the principles of food selection, storage, and preparation. Students will learn to prepare a variety of dishes and select appropriate food service techniques for various occasions, equipping them with practical skills for personal and professional settings.		

INFORMATION TECHNOLOGY CLUSTER

PROGRAM NUMBER	APPLIED CYBERSECURITY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9001300 ✨	8207310	Digital Information Technology OR	CT	HTML/ CSS WordPress Certified Editor
	9001310	IT Fundamentals	CT	ITS Device Config. & Mgmt.
	9001320	Computer & Network Security Fundamentals	CT	ITS Networking Security
	9001320H	Computer & Network Security Fundamentals HONORS		
	9001330 9001330H	Cybersecurity Essentials Cybersecurity Essentials HONORS	CT	
	9001340 9001340H	Operational Cybersecurity Operational Cybersecurity HONORS	CT	Cisco Certified Support Tech. (CCST) - Cybersecurity
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.			

9001310	IT FUNDAMENTALS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course introduces students to the essential concepts, components, terminology, and knowledge about computers, computer systems, peripherals, and networks.			

9001320	COMPUTER AND NETWORK SECURITY FUNDAMENTALS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	IT Fundamentals or Digital Information Technology	
	Type of Credit:	CT	
This course introduces students to Cybersecurity and provides them with essential computer and networking knowledge and skills, particularly those related to Cybersecurity.			

9001320H	COMPUTER AND NETWORK SECURITY FUNDAMENTALS HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	IT Fundamentals or Digital Information Technology	
	Type of Credit:	CT	
This honors course offers extensive experience in Applied Cybersecurity. In addition to fulfilling all requirements of Computer and Network Security Fundamentals, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9001330	CYBERSECURITY ESSENTIALS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Computer & Network Security Fundamentals	
	Type of Credit:	CT	
This course provides students with insight into the many variations of vulnerabilities, attack mechanisms, intrusion detection systems, and some methods to mitigate Cybersecurity risks, including certificate services and cryptographic systems.			

9001330H	CYBERSECURITY ESSENTIALS HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Computer & Network Security Fundamentals	
	Type of Credit:	CT	
This honors course offers extensive experience in Applied Cybersecurity. In addition to fulfilling all requirements of Cybersecurity Essentials, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9001340	OPERATIONAL CYBERSECURITY		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Cybersecurity Essentials	
	Type of Credit:	CT	
This course provides students with insight into the many ways in which computer systems can be secured, countermeasures implemented, and risk assessment performed.			

9001340H	OPERATIONAL CYBERSECURITY HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Cybersecurity Essentials CT	
This honors course offers extensive experience in Applied Cybersecurity. In addition to fulfilling all requirements of Operational Cybersecurity, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	GAME/SIMULATION/ANIMATION PROGRAMMING		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8208300 ✨	8207310	Digital Information Technology OR	CT	HTML/ CSS WordPress Certified Editor
	8208110	Game & Simulation Foundations	CT	CIW Multimedia Specialist
	8208120	Game & Simulation Design	CT	Toon Boom - Storyboard Pro
	8208330 8208330H	Game & Simulation Programming Game & Simulation Programming HONORS	CT	Unity Certified User: Programmer
	8208340 8208340H	Multi-User Game & Simulation Programming Multi-User Game & Simulation Programming HONORS	CT	Unity Certified User: VR Developer
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreads heet, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.			

8208110	GAME AND SIMULATION FOUNDATIONS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to introduce game and simulation concepts and careers; the impact game and simulation has on society and industry; and basic game/simulation design concepts, such as rule design, play mechanics, and media integration. This course compares and contrasts games and simulations, key development methodologies and tools, careers, and industry-related information. This course also covers strategies, processes, and methods for conceptualizing a game or simulation application, storyboarding techniques, and development tools. Hands-on activities using an entry-level game development tool will result in the creation of a playable game.			

8208120	GAME AND SIMULATION DESIGN		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Foundations	
	Type of Credit:	CT	
This course covers fundamental principles of designing a game or a simulation application, in particular Human Computer Interface (HCI) principles, rules and strategies of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. The content includes market research, product design documentation, storyboarding, proposal development, and presentation of a project report. Emphasis is placed on the techniques needed to develop well-documented, structured game or simulation programs. Extensive use is made of evaluating and analyzing existing games or simulations. Hands-on activities using an entry-level game development tool will result with the creation and presentation of a playable game with design documentation.			

8208330	GAME AND SIMULATION PROGRAMMING		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Design	
	Type of Credit:	CT	
This course focuses on students acquiring the appropriate programming skills for rendering a game or simulation product, including program control, conditional branching, memory management, score -keeping, timed event strategies and methodologies, and implementation issues.			

8208330H	GAME AND SIMULATION PROGRAMMING HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Design	
	Type of Credit:	CT	
This honors course offers extensive experience in Game and Simulation Programming. In addition to fulfilling all requirements of Game and Simulation Programming, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8208340	MULTI-USER GAME AND SIMULATION PROGRAMMING		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 12 1.0 Year Game & Simulation Programming CT	
This course is focused on students acquiring the appropriate programming skills for rendering a game or simulation product, including program control, conditional branching, score-keeping, timed event strategies and methodologies, and implementation issues specific to multi-user game/simulation products.			

8208340H	MULTI-USER GAME AND SIMULATION PROGRAMMING HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 12 1.0 Year Game & Simulation Programming CT	
This honors course offers extensive experience in Multi-user Game and Simulation Programming. In addition to fulfilling all requirements of Multi-user Game and Simulation Programming, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	GAME/SIMULATION/ANIMATION VISUAL DESIGN		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8208100 ✱	8207310	Digital Information Technology OR	CT	HTML/ CSS WordPress Certified Editor
	8208110	Game & Simulation Foundations	CT	CIW Multimedia Specialist
	8208120	Game & Simulation Design	CT	Toon Boom - Storyboard Pro
	8208130	Game & Simulation Graphic Artist	CT	Unity Certified User: Artist
	8208140	Game & Simulation 3D Animator	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.			

8208110	GAME AND SIMULATION FOUNDATIONS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to introduce game and simulation concepts and careers; the impact game and simulation has on society and industry; and basic game/simulation design concepts, such as rule design, play mechanics, and media integration. This course compares games and simulations, key development methodologies and tools, careers, and industry-related information. This course also covers strategies, processes, and methods for conceptualizing a game or simulation application, storyboarding techniques, and development tools. Hands-on activities using an entry-level game development tool will result in the creation of a playable game.			

8208120	GAME AND SIMULATION DESIGN		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Foundations	
	Type of Credit:	CT	
This course covers fundamental principles of designing a game or a simulation application, in particular Human Computer Interface (HCI) principles, rules and strategies of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. The content includes market research, product design documentation, storyboarding, proposal development, and presentation of a project report. Emphasis is placed on the techniques needed to develop well-documented, structured game or simulation programs. Extensive use is made of evaluating and analyzing existing games or simulations. Hands-on activities using an entry-level game development tool will result with the creation and presentation of a playable game with design documentation.			

8208130	GAME AND SIMULATION GRAPHIC ARTIST		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Design	
	Type of Credit:	CT	
This course is focused on students acquiring skills to create, refine, and integrate realistic 2D graphics into a game or simulation product. Students will essentially learn how to use a graphic software package, file maintenance strategies, and migration techniques and issues.			

8208140	GAME AND SIMULATION 3D ANIMATOR		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Game & Simulation Graphic Artist	
	Type of Credit:	CT	
This course is focused on students acquiring skills to create, refine, and integrate realistic 2D graphics into a game or simulation product. Students will essentially learn how to use a graphic software package, file maintenance strategies, and migration techniques and issues.			

PROGRAM NUMBER	JAVA DEVELOPMENT AND PROGRAMMING		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9007200 ☼	8207310	Digital Information Technology	CT	HTML/ CSS WordPress Certified Editor
	9007210 9007210H	Foundations of Programming Foundations of Programming HONORS	CT	ITS Python Cert.
	9007220 9007220H	Procedural Programming Procedural Programming HONORS	CT	
	9007230 9007230H	Object-Oriented Programming Fundamentals Object-Oriented Programming Fundamentals HONORS	CT	
	9007240 9007240H	Java Programming Essentials Java Programming Essentials HONORS	CT	ITS – Intro. to Programming using Java
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8207310	DIGITAL INFORMATION TECHNOLOGY		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheet, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.			

9007210	FOUNDATIONS OF PROGRAMMING		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Digital Information Technology	
	Type of Credit:	CT	
This course introduces concepts, techniques, and processes associated with computer programming and software development.			

9007210H	FOUNDATIONS OF PROGRAMMING HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Digital Information Technology CT	
This honors course offers extensive experience in Java Development and Programming. In addition to fulfilling all requirements of Foundations of Programming, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9007220	PROCEDURAL PROGRAMMING		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Foundations of Programming CT	
This course continues the study of computer programming concepts with a focus on the creation of software applications employing procedural programming techniques.			

9007220H	PROCEDURAL PROGRAMMING HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Foundations of Programming CT	
This honors course offers extensive experience in Java Development and Programming. In addition to fulfilling all requirements of Procedural Programming, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9007230	OBJECT-ORIENTED PROGRAMMING FUNDAMENTALS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Procedural Programming CT	
This course continues the study of computer programming concepts with a focus on the creation of software applications employing object-oriented programming techniques.			

9007230H	OBJECT-ORIENTED PROGRAMMING FUNDAMENTALS HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Procedural Programming CT	
This honors course offers extensive experience in Java Development and Programming. In addition to fulfilling all requirements of Object-Oriented Programming Fundamentals, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9007240	JAVA PROGRAMMING ESSENTIALS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Object-Oriented Programming Fundamentals	
	Type of Credit:	CT	
This course continues the study of computer programming concepts specific to the Java programming language.			

9007240H	JAVA PROGRAMMING ESSENTIALS HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Object-Oriented Programming Fundamentals	
	Type of Credit:	CT	
This honors course offers extensive experience in Java Development and Programming. In addition to fulfilling all requirements of JAVA Programming Essentials, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9007230	OBJECT-ORIENTED PROGRAMMING FUNDAMENTALS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Procedural Programming	
	Type of Credit:	CT	
This course continues the study of computer programming concepts with a focus on the creation of software applications employing object-oriented programming techniques.			

9007230H	OBJECT-ORIENTED PROGRAMMING FUNDAMENTALS HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Procedural Programming	
	Type of Credit:	CT	
This honors course offers extensive experience in Web Application Development and Programming. In addition to fulfilling all requirements of Object-Oriented Programming Fundamentals, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9007510	WEB PROGRAMMING		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Object-Oriented Programming Fundamentals	
	Type of Credit:	CT	
This course continues the study of computer programming concepts specific to the Internet and Internet-based software applications.			

9007510H	WEB PROGRAMMING HONORS		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Object-Oriented Programming Fundamentals CT	
This honors course offers extensive experience in Web Application Development and Programming. In addition to fulfilling all requirements of Web Programming, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
9000420	9000420	Information Technology Cooperative OJT
9000100	9000100	Information Technology Directed Study*
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>		

9000420	INFORMATION TECHNOLOGY COOPERATIVE OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Enrollment in Information Technology Career Prep Program Elective	
This course provides an Information Technology on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.			

9000100	INFORMATION TECHNOLOGY DIRECTED STUDY		
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of an Information Technology Career Prep Program Elective	
This course provides students with learning opportunities in a prescribed program of study within the Information Technology cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed an Information Technology job preparatory program or occupational completion point for additional study in this career cluster.			

LAW, PUBLIC SAFETY AND SECURITY CLUSTER

PROGRAM NUMBER	CRIMINAL JUSTICE OPERATIONS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8918000 ✱	8918010	Criminal Justice Operations 1	CT	WordPress Certified Editor
	8918020	Criminal Justice Operations 2	CT	WordPress Certified Editor
	8918030 8918030H	Criminal Justice Operations 3 Criminal Justice Operations 3 HONORS	CT	WordPress Certified Editor
	8918050	Public Service Officer OR	CT	
9101000	9101100	Dispatcher: Police, Fire, Ambulance	CT	911 Operator

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

8918010	CRIMINAL JUSTICE OPERATIONS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to introduce students to the fields of law enforcement, the court system, and the correctional system. The content includes career opportunities in these fields, court system, correctional system, interpersonal and communication skills, and employability skills.			

8918020	CRIMINAL JUSTICE OPERATIONS 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Criminal Justice Operations 1	
	Type of Credit:	CT	
This course is designed to develop competencies in patrol, traffic control, defensive tactics and physical proficiency skills, and first aid and cardiopulmonary resuscitation skills.			

8918030	CRIMINAL JUSTICE OPERATIONS 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Criminal Justice Operations 2 CT	
	Type of Credit:		
This course is designed to develop competencies in crime and accident investigation procedures, forensic science tasks, crime prevention, and property control procedures.			

8918030H	CRIMINAL JUSTICE OPERATIONS 3 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Criminal Justice Operations 2 CT	
	Type of Credit:		
This honors course offers extensive experience in Criminal Justice Operations. In addition to fulfilling all requirements of Criminal Justice Operations 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8918050	PUBLIC SERVICE OFFICER		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Criminal Justice Operations 3 CT	
	Type of Credit:		
This course prepares students for employment as a Private Security Officer and Public Service Aide. The content includes, but is not limited to, legal issues, basic first aid, emergency procedures, ethics and professional conduct, access control, patrol techniques, report writing, interview techniques, fire safety, crime and accident prevention and protection, terrorism awareness, public relations, courtroom procedures, communication skills, and personal protection.			

9101100	DISPATCHER: POLICE, FIRE, AMBULANCE		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.5	
	Length:	Year	
	Prerequisite:	Criminal Justice Operations 3	
	Type of Credit:	CT	
This course prepares students for employment as a dispatcher: police, fire, ambulance. The content includes, but is not limited to, ethics and the role of the telecommunicator; standard telecommunication operating procedures; relationship to field personnel; understanding of command levels; typical layouts of message centers; use of performance aids; overview of emergency agencies; functions and terminology; use of correct words and grammar; communications equipment, functions and terminology; types of telecommunication equipment; malfunctions and maintenance agreements; proper and correct telephone and dispatching procedures and techniques; cooperation and reciprocal agreements with other agencies; federal, state, and local communication rules; emergency situations and operating procedures; emergency medical dispatch procedures; employability skills; leadership and human relations skills; and health.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8900410	8900410	Law, Public Safety & Security Cooperative Education OJT	N/A
8900100	8900100	Law, Public Safety & Security Directed Study*	N/A
*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.			

8900410	LAW, PUBLIC SAFETY & SECURITY COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10,11, 12 Multiple Year Enrollment in or Completion of a Law, Public Safety & Security Career Prep Program CT	
This course provides the Law, Public Safety and Security on-the-job training component for when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: a training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work.</i>			

8900100	LAW, PUBLIC SAFETY & SECURITY DIRECTED STUDY		
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of a Law, Public Safety & Security Career Prep Program CT	
This course provides students with learning opportunities in a prescribed program of study within the Law, Public Safety and Security cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Law, Public Safety and Security career cluster.			

MANUFACTURING CLUSTER

PROGRAM NUMBER	ADVANCED MANUFACTURING TECHNOLOGY		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9200200 ✳	9200210	Advanced Manufacturing Technology 1	CT	AutoDesk Fusion 360
	9200220 9200220H	Advanced Manufacturing Technology 2 Advanced Manufacturing Technology 2 HONORS	CT	
	9200230 9200230H	Advanced Manufacturing Technology 3 Advanced Manufacturing Technology 3 HONORS	CT	AutoDesk- Inventor
	9200240 9200240H	Advanced Manufacturing Technology 4 Advanced Manufacturing Technology 4 HONORS	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

9200210	ADVANCED MANUFACTURING TECHNOLOGY 1		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year None CT	
The course prepares students for entry into the advanced manufacturing industry. Content emphasizes beginning skills key to the success of working in the manufacturing industry. Students gain an understanding of technology and the concept of Design for Manufacturing, study workplace safety and workplace organization, workplace communication skills, and basic machine operation.			

9200220	ADVANCED MANUFACTURING TECHNOLOGY 2		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Advanced Manufacturing Technology 1 CT	
The course prepares students for entry into the advanced manufacturing industry. Content emphasizes beginning skills key to the success of working in the manufacturing industry. Students study how to accurately read and interpret blueprints and schematics; graphic design and computer-aided drawing; quality assurance methods and quality control concepts; use of precision measurement tools and instruments; and understanding modern business practices.			

9200220	ADVANCED MANUFACTURING TECHNOLOGY 2 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Advanced Manufacturing Technology 1	
	Type of Credit:	CT	
This honors course offers extensive experience in Communications. In addition to fulfilling all requirements of Advanced Manufacturing 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9200230	ADVANCED MANUFACTURING TECHNOLOGY 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Advanced Manufacturing Technology 2 CT	
The course prepares students for entry into the advanced manufacturing industry. Content emphasizes beginning skills key to the success of working in the manufacturing industry. Students study how to select production processes; computer-aided manufacturing and flexible manufacturing planning; produce a product via a master project; manual milling machines, computer-numeric-control machines, and welding systems; and robotic systems used in manufacturing.			

9200230H	ADVANCED MANUFACTURING TECHNOLOGY 3 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Advanced Manufacturing Technology 2	
	Type of Credit:	CT	
This honors course offers extensive experience in Communications. In addition to fulfilling all requirements of Advanced Manufacturing 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9200240	ADVANCED MANUFACTURING TECHNOLOGY 4		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Advanced Manufacturing Technology 3	
	Type of Credit:	CT	
The course prepares students for entry into the advanced manufacturing industry. Content emphasizes beginning skills key to the success of working in the manufacturing industry. Students study mechanisms; AC/DC electrical control; programmable logic control; fluid power; maintenance of technological systems; and exploration of employability and career opportunities.			

9200240H	ADVANCED MANUFACTURING TECHNOLOGY 4 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Advanced Manufacturing Technology 3	
	Type of Credit:	CT	
This honors course offers extensive experience in Communications. In addition to fulfilling all requirements of Advanced Manufacturing 4, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	WELDING TECHNOLOGY FUNDAMENTALS		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9204400 ✦	9204410	Welding Technology Fundamentals 1	CT	HBI – PACT Core
	9204420	Welding Technology Fundamentals 2	CT	
	9204430	Welding Technology Fundamentals 3	CT	
	9204440	Welding Technology Fundamentals 4	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement **This program is only being offered at Deltona High School. Please do not add this program to your school's offerings. Contact the CTE Department if you have questions.				

9204410	WELDING TECHNOLOGY FUNDAMENTALS 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
The Welding Technology Fundamentals 1 course prepares students for entry into the welding industry. Students explore career opportunities and the requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the welding industry. Students study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices. Students demonstrate learned skills by creating and producing a finished product.			

9204420	WELDING TECHNOLOGY FUNDAMENTALS 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Welding Technology Fundamentals 1	
	Type of Credit:	CT	
The Welding Technology Fundamentals 2 course is designed to build on the skills and knowledge students learned in Welding Technology Fundamentals 1 for entry into the welding industry. Students explore career opportunities and the requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the welding industry. Students study drawings and welding symbols, intermediate oxyfuel gas cutting practices, plasma arc cutting principles, and basic shielded metal arc welding (SMAW) . Students demonstrate learned skills by creating and producing a finished product.			

9204430	WELDING TECHNOLOGY FUNDAMENTALS 3		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Welding Technology Fundamentals 2 CT	
The Welding Technology Fundamentals 3 course is designed to build on the skills and knowledge students learned in Welding Technology Fundamentals 1 and 2 for entry into the welding industry. Students explore career opportunities and the requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the welding industry. Students study basic shielded metal arc welding (SMAW), Carbon Arc Gouging (GAC) principles, and visual examination skills. Students demonstrate learned skills by creating and producing a finished product.			
9204440	WELDING TECHNOLOGY FUNDAMENTALS 4		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Welding Technology Fundamentals 3 CT	
The Welding Technology Fundamentals 4 course is designed to build on the skills and knowledge students learned in Welding Technology Fundamentals 1, 2, and 3 for entry into the welding industry. Students explore career opportunities and the requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the welding industry. Students study employability and welding careers, and intermediate shielded metal arc welding (SMAW). Students demonstrate learned skills by creating and producing a finished product.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
9200420	9200420	Manufacturing Cooperative Education OJT
9201000	9201000	Manufacturing Directed Study*
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>		

9200420	MANUFACTURING COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Enrollment in or Completion of a Manufacturing Career Prep Program CT	
This course provides a Manufacturing on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. <i>The student must be compensated for work.</i>			

9201000	MANUFACTURING DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of a Manufacturing Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Manufacturing cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Manufacturing career cluster.		

MARKETING, SALES AND SERVICES CLUSTER

PROGRAM NUMBER	ENTREPRENEURSHIP		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8812100 ☼	8812110	Principles of Entrepreneurship	CT	Entrepreneurship and Small Business
	8812120	Business Management & Law	CT	
	8812000 8812000H	Business Ownership Business Ownership HONORS	CT	Entrepreneurship & Small Business
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8812110	PRINCIPLES OF ENTREPRENEURSHIP		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Business Ownership	
	Type of Credit:	CT	
This course is designed to provide the basic principles of entrepreneurship including the role of the entrepreneur; entrepreneurship as a career; ethics in business; and the principles of marketing, financing, and managing a business.			

8812120	BUSINESS MANAGEMENT AND LAW		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Principles of Entrepreneurship	
	Type of Credit:	CT	
This course is designed to provide an introduction to business management techniques. Course content includes human relations, decision-making, communication techniques, business law concepts, and characteristics of the American enterprise system.			

8812000	BUSINESS OWNERSHIP		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to prepare students for careers as entrepreneurs, present entrepreneurship as a career path worthy of consideration, provide students with the skills needed to realistically evaluate their potential as business owners. and develop the fundamental knowledge and skills necessary to start and operate a business.			

8812000H	BUSINESS OWNERSHIP HONORS		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This honors course offers extensive experience in Marketing, Sales and Services. In addition to fulfilling all requirements of Business Ownership, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	MARKETING, MANAGEMENT AND ENTREPRENEURIAL PRINCIPLES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9200500 ✨	8827110	Marketing Essentials	CT	CIW Social Media Strategist
	8827120	Marketing Applications	CT	
	8827130	Marketing Management OR	CT	Entrepreneurship & Small Business
	8812000 8812000H	Business Ownership Business Ownership HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				

8827110	MARKETING ESSENTIALS		Career Prep
	Offered:	Grade 9,10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Business Ownership	
	Type of Credit:	CT	
This course blends theory and practice to facilitate immediate implementation and impact. Students will learn to develop strategic marketing with sales and customer plans. A review of the marketing environment is used to help develop the segmentation, targeting and market positioning strategy for implementation along with the marketing mix (product, price, place and promotion). The goal is the identification and delivery of organizational competitive advantage and customer satisfaction – key to long-term revenue growth, profitability and success.			

8827120	MARKETING APPLICATIONS		Career Prep
	Offered:	Grade 10,11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Marketing Essentials	
	Type of Credit:	CT	
This course is designed to provide students with an in-depth study of marketing in a free enterprise society and includes advertising, promotion, product development and branding, selling and marketing research. This course also includes the uses of technology and the Internet in marketing, purchasing, retail positioning strategies, and e-Commerce marketing.			

8827130	MARKETING MANAGEMENT		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Marketing Applications	
	Type of Credit:	CT	
This course provides instruction for career-sustaining level of employment in the industry. The content includes applied skills related to marketing functions, employment skills required for success in marketing, and career planning as related to a marketing industry.			

8812000	BUSINESS OWNERSHIP		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to prepare students for careers as entrepreneurs, present entrepreneurship as a career path worthy of consideration, provide students with the skills needed to realistically evaluate their potential as business owners and develop the fundamental knowledge and skills necessary to start and operate a business.			

8812000H	BUSINESS OWNERSHIP HONORS		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This honors course offers extensive experience in Marketing, Sales and Services. In addition to fulfilling all requirements of Business Ownership, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
8800410	8800410	Marketing, Sales & Services Cooperative Education OJT
8800100	8800100	Marketing Directed Study*
*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.		

8800410	MARKETING, SALES & SERVICES COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10,11,12 Multiple Year Enrollment in or Completion of a Marketing, Sales & Services Career Prep Program CT	
This course is designed to provide Marketing, Sales and Services on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.			

8800100	MARKETING DIRECTED STUDY		
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11,12 Multiple Year Completion of a Marketing, Sales & Services Career Prep Program CT	
This course provides students with learning opportunities in a prescribed program of study within the Marketing, Sales and Services cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Marketing, Sales and Services career cluster.			

PROGRAM NUMBER	STAND ALONE COURSES		
	Course Number	Course Name	Industry Certification
8827130	8827130	Business Ownership	Entrepreneurship & Small Business
	8827130H	Business Ownership HONORS	

8812000	BUSINESS OWNERSHIP		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11,12 1.0 Year None CT	
This course is designed to prepare students for careers as entrepreneurs, present entrepreneurship as a career path worthy of consideration, provide students with the skills needed to realistically evaluate their potential as business owners and develop the fundamental knowledge and skills necessary to start and operate a business.			

8812000H	BUSINESS OWNERSHIP HONORS		Career Prep
	Offered:	Grade 11,12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This honors course offers extensive experience in Marketing, Sales and Services. In addition to fulfilling all requirements of Business Ownership, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER

PROGRAM NUMBER	** AUTOMOTIVE MAINTENANCE & LIGHT REPAIR (AMLR)		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9504100 ✨	9504110	AMLR 1	CT	Entrepreneurship & Small Business
	9504110H	AMLR 1 HONORS		
	9504120	AMLR 2	CT	ASE Entry-Level Auto: Brakes
	9504120H	AMLR 2 HONORS		
	9504130	AMLR 3	CT	ASE Entry-Level Auto: Electrical/ Electronic Systems
	9504130H	AMLR 3 HONORS		
	9504140	AMLR 4	CT	ASE Entry Level Auto: Maint. & Light Repair
	9504140H	AMLR 4 HONORS		

*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement

**This program is only being offered at Atlantic High School. Please do not add this program to your school's offerings. Contact the CTE Department if you have questions.

9504110	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course prepares students to explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills.			

9504110H	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 1 HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMLR1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9504120	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 2		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 1	
	Type of Credit:	CT	
This course prepares students in automotive general electrical systems, starting and charging systems, batteries, lighting, instrument cluster, driver information, and body electrical systems. Content emphasizes beginning transportation service skills and workplace success skills.			

9504120H	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 2 HONORS		Career Prep
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 1	
	Type of Credit:	CT	
	This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMLR 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

9504130	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 2	
	Type of Credit:	CT	
This course allows students to study and service suspension and steering systems, and brake systems. Content emphasizes beginning transportation service skills and workplace success skills.			

9504130H	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 3 HONORS		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 2	
	Type of Credit:	CT	
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMLR 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

9504140	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 4		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 3	
	Type of Credit:	CT	
This course prepares students for entry into the automotive workforce or into post- secondary training. Students’ study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, as well as practice workplace soft skills.			

9504140H	AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 4 HONORS		Career Prep
	Offered:	Grade 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Automotive Maintenance Repair 3	
	Type of Credit:	CT	
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMLR 4, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

PROGRAM NUMBER	**AVIATION MAINTENANCE GENERAL (AMG)		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9540600 ⚙️	9540610	Private Pilot Ground School	CT	Small UAS Safety: Level 1
	9540610H	Private Pilot Ground School HONORS		
	8715110	AMG 1	CT	WordPress Certified Editor
	8715110H	AMG 1 HONORS		
	8715120	AMG 2	CT	TBA
	8715120H	AMG 2 HONORS		
	8715130	AMG 3	CT	FAA Aviation Maintenance Tech. - General
	8715130H	AMG 3 HONORS		
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				
**This program is only being offered at Atlantic High School. Please do not add this program to your school's offerings. Contact the CTE Department if you have questions.				

9540610	PRIVATE PILOT GROUND SCHOOL		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course prepares students for entry into the aviation industry. Students explore career opportunities and requirements of a professional aviation pilot/mechanic. Students study general shop safety, fundamentals of flight, FAA regulations, meteorology, aircraft communications, propulsion, and navigation systems, flight planning, communication and analytical skills, applied sciences, safe aircraft operation and principles, flight training processes, and airport environments.			

9540610H	PRIVATE PILOT GROUND SCHOOL HONORS		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of Private Pilot Ground School, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.			

8715110	AVIATION MAINTENANCE GENERAL 1		Career Prep
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Private Pilot Ground School	
	Type of Credit:	CT	
This course prepares students for entry into the aviation industry. Students explore career opportunities and requirements of a professional aviation mechanic. Students study general hangar and shop safety, environmental concerns, mathematics, physics, basic aerodynamics, federal aviation regulations, publications and records.			
8715110H	AVIATION MAINTENANCE GENERAL 1 HONORS		Career Prep

	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1.0 Year Private Pilot Ground School CT
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMG 1, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8715120	AVIATION MAINTENANCE GENERAL 2	Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aviation Maintenance General 1 CT
This course is designed to build on the skills and knowledge students learned in Aviation Maintenance General 1 for entry into the aviation industry. Students explore career opportunities and requirements of a professional aviation mechanic. Students study aircraft hardware and precision measuring instruments; blueprints and drawings; hand and power tools; and fluid lines and fittings.		

8715120H	AVIATION MAINTENANCE GENERAL 2 HONORS	Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aviation Maintenance General 1 CT
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMG 2, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

8715130	AVIATION MAINTENANCE GENERAL 3	Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aviation Maintenance General 2 CT
This course is designed to build on the skills and knowledge students learned in Aviation Maintenance General 1 & 2 for entry into the aviation industry. Students explore career opportunities and requirements of a professional aviation mechanic. Students study basic electricity and DC electrical circuits; aircraft battery service and inspection; AC electrical circuits and solid-state circuits.		

8715130H	AVIATION MAINTENANCE GENERAL 3 HONORS	Career Prep
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	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 1.0 Year Aviation Maintenance General 2 CT
This honors course offers extensive experience in Transportation, Distribution and Logistics. In addition to fulfilling all requirements of AMG 3, students will participate in a Career and Technical Education Leadership project or a Career and Technical Education Honors capstone project.		

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES	
	Course Number	Course Name
9500420	9500420	Transportation, Distribution & Logistics Cooperative Education OJT
9501000	9501000	Transportation, Distribution & Logistics Directed Study*
<i>*Students should not be placed in this course unless they have completed/are completing a program (three sequential courses). Industry certifications offered must be tied to the program the student has completed.</i>		

9500420	TRANSPORTATION, DISTRIBUTION & LOGISTICS COOPERATIVE EDUCATION OJT		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10,11,12 Multiple Year Enrollment in or Completion of a Transportation, Distribution & Logistics Career Prep Program CT	
This course is designed to provide Transportation, Distribution & Logistics on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.			

9501000	TRANSPORTATION, DISTRIBUTION & LOGISTICS DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11,12 Multiple Year Completion of a Transportation, Distribution & Logistics Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study within the Transportation, Distribution & Logistics cluster that will enhance opportunities for employment in the career field chosen by the student. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. This course may be taken only by a student who has completed a job preparatory program in the Transportation, Distribution & Logistics career cluster.		

ADDITIONAL CTE PROGRAMS AND COURSES

PROGRAM NUMBER	**CAREER EDUCATION SERVICES FOR STUDENTS WITH DISABILITIES		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
9603100	9603110	Career Education Services for Students with Disabilities 1	CT	Varied <i>(Depends on Program)</i>
	9603120	Career Education Services for Students with Disabilities 2	CT	
	9603130	Career Education Services for Students with Disabilities 3	CT	
	9603140	Career Education Services for Students with Disabilities 4	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement **This program provides specialized career education for students with a disability who have an IEP or 504 plan.				

9603110	CAREER EDUCATION SERVICES		Career Prep
	FOR STUDENTS WITH DISABILITIES 1		
	Offered:	Grade 9, 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	None	
	Type of Credit:	CT	
This course is designed to develop realistic employment goals; to develop employability skills appropriate to the workplace, and to develop skills necessary to the chosen career path.			

9603120	CAREER EDUCATION SERVICES		Career Prep
	FOR STUDENTS WITH DISABILITIES 2		
	Offered:	Grade 10, 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Career Education Services for Students with Disabilities 1	
	Type of Credit:	CT	
This course is designed to develop realistic employment goals; to develop employability skills appropriate to the workplace, and to develop skills necessary to the chosen career path.			

9603130	CAREER EDUCATION SERVICES FOR STUDENTS WITH DISABILITIES 3		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Career Education Services for Students with Disabilities 2	
	Type of Credit:	CT	
This course is designed to develop realistic employment goals; to develop employability skills appropriate to the workplace, and to develop skills necessary to the chosen career path.			

	CAREER EDUCATION SERVICES	Career Prep
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9603140	FOR STUDENTS WITH DISABILITIES 4	
	Offered:	Grade 12
	Credit:	1.0
	Length:	Year
	Prerequisite:	Career Education Services for Students with Disabilities 3
	Type of Credit:	CT
This course is designed to develop realistic employment goals; to develop employability skills appropriate to the workplace, and to develop skills necessary to the chosen career path.		

PROGRAM NUMBER	**HIGH SCHOOL PRE-APPRENTICESHIP		TYPE OF CREDIT*	INDUSTRY CERTIFICATION
	Course Number	Course Name		
8000200	8000110	Pre-Apprenticeship 1	CT	Varied <i>(Depends on Program)</i>
	8000120	Pre-Apprenticeship 2	CT	
	8000130	Pre-Apprenticeship 3	CT	
	8000140	Pre-Apprenticeship 4	CT	
*EQ = Equally Rigorous Science Course; CT = Meets CTE/Arts Grad Requirement				
**Minimum 16 Years of Age, Registered in a Registered Pre-Apprenticeship Program (section 446.021 F.S.)				

8000110	HIGH SCHOOL PRE-APPRENTICESHIP 1		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of a CTE Career Prep Program	
	Type of Credit:	CT	
This course prepares students for further education and careers in various apprenticeable occupations that are part of a Registered Pre-Apprenticeship program registered with the Florida Department of Education, Division of Career and Adult Education, Apprenticeship Section. The program may include time-based and competency-based applied learning that contributes to problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of registered apprenticeship.			

8000120	HIGH SCHOOL PRE-APPRENTICESHIP 2		Career Prep
	Offered:	Grade 11, 12	
	Credit:	1.0	
	Length:	Year	
	Prerequisite:	Enrollment in or Completion of a CTE Career Prep Program	
	Type of Credit:	CT	
This course prepares students for further education and careers in various apprenticeable occupations that are part of a Registered Pre-Apprenticeship program registered with the Florida Department of Education, Division of Career and Adult Education, Apprenticeship Section. The program may include time-based and competency-based applied learning that contributes to problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of registered apprenticeship.			

8000130	HIGH SCHOOL PRE-APPRENTICESHIP 3	Career Prep
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	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Enrollment in or Completion of a CTE Career Prep Program CT
This course prepares students for further education and careers in various apprenticeable occupations that are part of a <i>Registered Pre-Apprenticeship program registered with the Florida Department of Education, Division of Career and Adult Education, Apprenticeship Section.</i> The program may include time-based and competency-based applied learning that contributes to problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of registered apprenticeship.		

8000140	HIGH SCHOOL PRE-APPRENTICESHIP 4	Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 1.0 Year Enrollment in or Completion of a CTE Career Prep Program CT
This course prepares students for further education and careers in various apprenticeable occupations that are part of a <i>Registered Pre-Apprenticeship program registered with the Florida Department of Education, Division of Career and Adult Education, Apprenticeship Section.</i> The program may include time-based and competency-based applied learning that contributes to problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of registered apprenticeship.		

PROGRAM NUMBER	CAPSTONE/EXPERIENTIAL COURSES		
	Course Number	Course Name	Industry Certification
8300420	8300420	Cooperative Diversified Education OJT	Entrepreneurship & Small Business
8300100	8300100	Diversified Education Directed Study	N/A
8300430	8300430	Career & Technical Education Internship	Entrepreneurship & Small Business

8300420	COOPERATIVE DIVERSIFIED EDUCATION OJT	Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 Multiple Year Enrollment in a Diversified Education Career Prep Program CT
The purpose of this course is to provide an on-the-job training component when the cooperative method of instruction is appropriate. Whenever the cooperative method is offered, the following is required for each student: A training agreement; a training plan signed by the student, teacher and employer, including instructional objectives; a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks which are relevant to the occupation which the student has chosen as a career goal; and a site supervisor with a working knowledge of the selected occupation. The workstation may be in an industry setting or in a virtual learning environment. The student must be compensated for work performed.		

8300100	DIVERSIFIED EDUCATION
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	DIRECTED STUDY	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 11, 12 Multiple Year Completion of a Diversified Education Career Prep Program CT
This course provides students with learning opportunities in a prescribed program of study that will enhance opportunities for employment in the career field chosen by the student. This course may be taken only by a student who has completed the Diversified Career Technology career preparatory program and is interested in continued study in this career cluster. The content is prescribed by the instructor based upon the individual student's assessed needs for directed study. The selected standards and benchmarks, which the student must master to earn credit, must be outlined in an instructional plan developed by the instructor. A learning laboratory is provided as required to support the educational activities of the student. This laboratory may be in the traditional classroom, in an industry setting, or a virtual learning environment.		

8300430	CAREER & TECHNICAL EDUCATION INTERNSHIP		Career Prep
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 10, 11, 12 Multiple Year Enrollment in or Completion of a CTE Career Prep Program CT	
This course provides students with the opportunity to gain practical, first-hand knowledge in broad occupational clusters or industry sectors through a structured internship experience. This internship is designed to give students an opportunity to integrate occupational and applied academic learning and to apply knowledge and skills learned in a classroom to actual work situations not generally available through paid employment. To enroll in the internship, a student must be currently enrolled in or has completed a career course/program. Students will be allowed a maximum of 450 total hours at the workplace-learning site, regardless of the number of credits earned.			

PROGRAM NUMBER	STAND ALONE COURSES	
	Course Number	Course Name
9001920	9001920	Vocational Employability Skills for Youth (<i>DJJ use only</i>)
9799999	9799999	CTSO Extracurricular Activities

9001920	VOCATIONAL EMPLOYABILITY SKILLS FOR YOUTH	
	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 .5 Semester Youth being served by Department of Juvenile Justice CT
This course provides career and technical education competencies <i>for youth being served by Department of Juvenile Justice programs</i>. Basic practical and job preparatory instruction is provided in the competencies necessary for a better understanding of the world of work and for entry-level employment. The specific program content includes measurable components from any of the career and technical program areas with heavy emphasis on work ethics and employability skills.		

9799999	CTSO EXTRACURRICULAR ACTIVITIES
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	Offered: Credit: Length: Prerequisite: Type of Credit:	Grade 9, 10, 11, 12 1 Year Completion of CTSO Requirements Elective Credit
Upon completion, the student will earn an elective credit. Students may be awarded one high school credit upon providing verifiable documentation showing an accumulation of at least one hundred thirty-five (135) hours of participation in Career and Technical Student Organization (CTSO) activities that occur outside of regular class time. The 135-hour threshold may be accumulated over the course of one or more academic years.		

CAREER & TECHNICAL EDUCATION

Programs of Study 2025 – 2026

Honors Courses

Honors Designation Explanation

Chapter 1003.4203

GRADE POINT AVERAGE CALCULATION. — For purposes of calculating grade point average, a grade in a course that is level 3 or above and leads to an industry certification must be weighted the same as a grade in an honors course.

Per this legislative mandate, the following CTE courses are designated as HONORS courses as long as the teacher holds the industry certification:

AGRISCIENCE & NATURAL RESOURCES:

8009110H	Agriculture Leadership & Management HONORS
8106850H	Agricultural Biotechnology 2 HONORS
8106860H	Agricultural Biotechnology 3 HONORS
8117010H	Agricultural Communications 2 HONORS
8117020H	Agricultural Communications 3 HONORS
8106810H	Agriculture Foundations 1 HONORS
8112010H	Aquaculture 2 HONORS
8112020H	Aquaculture 3 HONORS
8112030H	Aquaculture 4 HONORS
8129210H	Food Science Applications 2 HONORS
8129220H	Food Science Applications 3 HONORS
8121510H	Horticulture Science 2 HONORS
8121520H	Horticulture Science 3 HONORS
8006220H	Introduction to Natural Resources 2 HONORS
8006230H	Natural Resource Technology 3 HONORS
8006240H	Natural Resource Management 4 HONORS
8009120H	Principles of Agribusiness HONORS

ARCHITECTURE AND CONSTRUCTION CLUSTER:

8722030H	Building Trades and Construction Design Technology 3 HONORS
8104330H	Carpentry Framing HONORS
8104340H	Carpentry Exterior HONORS 8104350H Carpentry Finish HONORS

ARTS, A/V TECHNOLOGY AND COMMUNICATION CLUSTER:

8209510H	Digital Design 1 HONORS
8209520H	Digital Design 2 HONORS
8209530H	Digital Design 3 HONORS
8209540H	Digital Design 4 HONORS
8209550H	Digital Design 5 HONORS
8201610H	Digital Media/Multimedia Web Production HONORS
8201620H	Digital Media/Multimedia Motion Graphics Production HONORS
8201410H	Digital Video Technology 1 HONORS
8201420H	Digital Video Technology 2 HONORS
8201430H	Digital Video Technology 3 HONORS
8201440H	Digital Video Technology 4 HONORS
8201530H	Television Production Technology 3 HONORS

BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER:

8203310H	Accounting Applications 1 HONORS
8203320H	Accounting Applications 2 HONORS
8203330H	Accounting Applications 3 HONORS

EDUCATION AND TRAINING CLUSTER:

8405130H	Early Childhood Education 3 HONORS
8405140H	Early Childhood Education 4 HONORS

ENGINEERING AND TECHNOLOGY EDUCATION CLUSTER

8600620H	Aerospace Engineering HONORS
8600580H	Aerospace Technologies 1 HONORS
8600680H	Aerospace Technologies 2 HONORS
8601780H	Aerospace Technologies 3 HONORS
8401110H	Applied Engineering Technology 1 HONORS
8401120H	Applied Engineering Technology 2 HONORS
8401130H	Applied Engineering Technology 3 HONORS
8600590H	Civil Engineering & Architecture HONORS
8600560H	Computer Integrated Manufacturing HONORS
8600530H	Digital Electrics HONORS
8600650H	Engineering Design & Development HONORS
9410110H	Foundations of Robotics HONORS
8600550H	Introduction to Engineering Design HONORS
8600520H	Principles of Engineering HONORS
9410140H	Robotic Applications Capstone HONORS
9410120H	Robotic Design Essentials HONORS
9410130H	Robotic Systems HONORS

FINANCE CLUSTER:

8815110H	Economics & Financial Services HONORS
8815120H	Personal Finance HONORS

HEALTH SCIENCE CLUSTER:

8708140H	Biomedical Innovation HONORS
8417171H	Emergency Medical Responder 3 HONORS
8417100H	Health Science Anatomy & Physiology HONORS
8417110H	Health Science Foundations HONORS
8708120H	Human Body Systems HONORS
8708110H	Principles of Biomedical Sciences HONORS
8708130H	Medical Interventions HONORS
8417211H	Nursing Assistant 3 HONORS

HOSPITALITY & TOURISM CLUSTER:

8800530H	Culinary Arts 3 HONORS
8800540H	Culinary Arts 4/Track 1 HONORS
8800550H	Culinary Arts 4/Track 2 HONORS
8800560H	Culinary Arts 4/Track 3 HONORS

TRANSPORTATION, DISTRIBUTION & LOGISTICS:

9504110H	Automotive Maintenance & Light Repairs 1 HONORS
9504120H	Automotive Maintenance & Light Repairs 2 HONORS
9504130H	Automotive Maintenance & Light Repairs 3 HONORS
9504140H	Automotive Maintenance & Light Repairs 4 HONORS
9540610H	Private Pilot Ground School HONORS
8715110H	Aviation Maintenance General 1 HONORS
8715120H	Aviation Maintenance General 2 HONORS
8715130H	Aviation Maintenance General 3 HONORS