

# 2021–2022

## Provincially Authorized Senior High School Courses and Course Codes (including K–12 Withdrawn Courses and Programs)

Prerequisite courses are indicated by their linear arrangement across the page. The line symbol —□ also indicates a prerequisite that leads to more than one course. Prerequisite courses may also be identified in the programs of study.

Course credits are shown in parentheses.

Implementation years are noted in the footers of individual courses and programs of study.

**Note:** Courses recently authorized are shown with a shaded background.

A list of withdrawn courses and programs appears at the end of the document.

Grade 10	Grade 11	Grade 12
<b>LANGUAGE ARTS</b>		
<b>English Language Arts</b>		
ELA1105 English Language Arts 10-1 .....(5)	ELA2105 English Language Arts 20-1 ..... (5)	ELA3105 English Language Arts 30-1 ..... (5)
ELA1104 English Language Arts 10-2 .....(5)	ELA2104 English Language Arts 20-2 .....(5)	ELA3104 English Language Arts 30-2 ..... (5)
ESL1120 English as a Second Language 10–Level 1 .....(5) ❶		
ESL1121 English as a Second Language 10–Level 2 .....(5) ❶		
ESL1122 English as a Second Language 10–Level 3 .....(5) ❶		
ESL1123 English as a Second Language 10–Level 4 .....(5) ❶		
ESL1125 English as a Second Language 10–Level 5 .....(5) ❶		
<b>Français</b>		
FRA1301 Français 10-1 .....(5)	FRA2301 Français 20-1 .....(5)	FRA3301 Français 30-1 ..... (5)
FRA1314 Français 10-2 .....(5)	FRA2314 Français 20-2 .....(5)	FRA3314 Français 30-2 ..... (5)

❶ Proficiency level determines entry point. Waived prerequisite credits are not available for uncompleted lower levels.

Grade 10	Grade 11	Grade 12
<b>LANGUAGES</b>		
<b>Immersion and Bilingual Programs</b>		
ALA1487 Arabic Language Arts 10 .....(5)	ALA2487 Arabic Language Arts 20 ..... (5)	ALA3487 Arabic Language Arts 30..... (5)
CLA1485 Chinese Language Arts 10.....(5)	CLA2485 Chinese Language Arts 20..... (5)	CLA3485 Chinese Language Arts 30..... (5)
FLA1304 French Language Arts 10-1 .....(5)	FLA2304 French Language Arts 20-1 .... (5)	FLA3304 French Language Arts 30-1 ..... (5)
FLA1132 French Language Arts 10-2.....(5)	FLA2132 French Language Arts 20-2..... (5)	FLA3132 French Language Arts 30-2 ..... (5)
GLA1484 German Language Arts 10.....(5)	GLA2484 German Language Arts 20..... (5)	GLA3484 German Language Arts 30..... (5)
SLA1507 Spanish Language Arts 10.....(5)	SLA2507 Spanish Language Arts 20..... (5)	SLA3507 Spanish Language Arts 30..... (5)
ULA1486 Ukrainian Language Arts 10 ..(5)	ULA2486 Ukrainian Language Arts 20 .. (5)	ULA3486 Ukrainian Language Arts 30..... (5)
<b>First Nation, Métis, and Inuit Language and Culture</b>		
BLC1369 Blackfoot Language and Culture 10-3Y .....(5)	BLC2369 Blackfoot Language and Culture 20-3Y ..... (5)	BLC3369 Blackfoot Language and Culture 30-3Y..... (5)
BLC1769 Blackfoot Language and Culture 10-12Y.....(5)	BLC2769 Blackfoot Language and Culture 20-12Y..... (5)	BLC3769 Blackfoot Language and Culture 30-12Y..... (5)
CLC1488 Cree Language and Culture 10-3Y .....(5)	CLC2488 Cree Language and Culture 20-3Y ..... (5)	CLC3488 Cree Language and Culture 30-3Y..... (5)
CLC1489 Cree Language and Culture 10-6Y .....(5)	CLC2489 Cree Language and Culture 20-6Y ..... (5)	CLC3489 Cree Language and Culture 30-6Y..... (5)
CLC1490 Cree Language and Culture 10-9Y .....(5)	CLC2490 Cree Language and Culture 20-9Y ..... (5)	CLC3490 Cree Language and Culture 30-9Y..... (5)
CLC1487 Cree Language and Culture 10-12Y.....(5)	CLC2487 Cree Language and Culture 20-12Y..... (5)	CLC3487 Cree Language and Culture 30-12Y..... (5)
<b>French as a Second Language</b>		
FSL1093 French 10-3Y .....(5)	FSL2093 French 20-3Y ..... (5)	FSL3093 French 30-3Y..... (5)
FSL1099 French 10-9Y .....(5)	FSL2099 French 20-9Y ..... (5)	FSL3099 French 30-9Y..... (5)
		FSL3306 French 31A..... (5)
		FSL3307 French 31B..... (5)
		FSL3308 French 31C..... (5)
<b>International Languages: Language and Culture</b>		
CHI1094 Chinese Language and Culture 10-3Y .....(5)	CHI2094 Chinese Language and Culture 20-3Y ..... (5)	CHI3094 Chinese Language and Culture 30-3Y..... (5)
CHI1096 Chinese Language and Culture 10-6Y .....(5)	CHI2096 Chinese Language and Culture 20-6Y ..... (5)	CHI3096 Chinese Language and Culture 30-6Y..... (5)
CHI1894 Chinese Language and Culture 10-9Y .....(5)	CHI2894 Chinese Language and Culture 20-9Y ..... (5)	CHI3894 Chinese Language and Culture 30-9Y..... (5)
GER1315 German Language and Culture 10-3Y .....(5)	GER2315 German Language and Culture 20-3Y ..... (5)	GER3315 German Language and Culture 30-3Y..... (5)
GER1047 German Language and Culture 10-6Y .....(5)	GER2047 German Language and Culture 20-6Y ..... (5)	GER3047 German Language and Culture 30-6Y..... (5)
GER1903 German Language and Culture 10-9Y .....(5)	GER2903 German Language and Culture 20-9Y ..... (5)	GER3903 German Language and Culture 30-9Y..... (5)
ITA1322 Italian Language and Culture 10-3Y .....(5)	ITA2322 Italian Language and Culture 20-3Y ..... (5)	ITA3322 Italian Language and Culture 30-3Y..... (5)
ITA0012 Italian Language and Culture 10-6Y .....(5)	ITA0022 Italian Language and Culture 20-6Y ..... (5)	ITA0032 Italian Language and Culture 30-6Y..... (5)
ITA1768 Italian Language and Culture 10-12Y.....(5)	ITA2768 Italian Language and Culture 20-12Y..... (5)	ITA3768 Italian Language and Culture 30-12Y..... (5)
JLC1097 Japanese Language and Culture 10-3Y .....(5)	JLC2097 Japanese Language and Culture 20-3Y ..... (5)	JLC3097 Japanese Language and Culture 30-3Y..... (5)
JLC1098 Japanese Language and Culture 10-6Y .....(5)	JLC2098 Japanese Language and Culture 20-6Y ..... (5)	JLC3098 Japanese Language and Culture 30-6Y..... (5)
JLC1902 Japanese Language and Culture 10-9Y .....(5)	JLC2902 Japanese Language and Culture 20-9Y ..... (5)	JLC3902 Japanese Language and Culture 30-9Y..... (5)
LAT1325 Latin 10 .....(5)	LAT2325 Latin 20 ..... (5)	LAT3325 Latin 30 ..... (5)
PLC1893 Punjabi Language and Culture 10-3Y .....(5)	PLC2893 Punjabi Language and Culture 20-3Y ..... (5)	PLC3893 Punjabi Language and Culture 30-3Y..... (5)
PLC1901 Punjabi Language and Culture 10-9Y .....(5)	PLC2901 Punjabi Language and Culture 20-9Y ..... (5)	PLC3901 Punjabi Language and Culture 30-9Y..... (5)
SPN1345 Spanish Language and Culture 10-3Y .....(5)	SPN2345 Spanish Language and Culture 20-3Y ..... (5)	SPN3345 Spanish Language and Culture 30-3Y..... (5)
SPN1349 Spanish Language and Culture 10-6Y .....(5)	SPN2349 Spanish Language and Culture 20-6Y ..... (5)	SPN3349 Spanish Language and Culture 30-6Y..... (5)
SPN1895 Spanish Language and Culture 10-9Y .....(5)	SPN2895 Spanish Language and Culture 20-9Y ..... (5)	SPN3895 Spanish Language and Culture 30-9Y..... (5)
ULC1089 Ukrainian Language and Culture 10-3Y .....(5)	ULC2089 Ukrainian Language and Culture 20-3Y ..... (5)	ULC3089 Ukrainian Language and Culture 30-3Y..... (5)

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Grade 10	Grade 11	Grade 12
<b>International Languages: Language and Culture</b> (continued)		
ULC1091 Ukrainian Language and Culture 10-6Y ..... (5)	ULC2091 Ukrainian Language and Culture 20-6Y ..... (5)	ULC3091 Ukrainian Language and Culture 30-6Y ..... (5)
ULC1913 Ukrainian Language and Culture 10-9Y ..... (5)	ULC2913 Ukrainian Language and Culture 20-9Y ..... (5)	ULC3913 Ukrainian Language and Culture 30-9Y ..... (5)
<b>MATHEMATICS</b>		
MAT1791 Mathematics 10C ..... (5)	MAT2791 Mathematics 20-1 ..... (5) MAT2792 Mathematics 20-2 ..... (5) MAT2793 Mathematics 20-3 ..... (5)	MAT3791 Mathematics 30-1 ..... (5)
MAT1793 Mathematics 10-3 ..... (5)		MAT3792 Mathematics 30-2 ..... (5)
		MAT3793 Mathematics 30-3 ..... (5)
		MAT3211 Mathematics 31 <b>1</b> ..... (5)
<b>SCIENCE</b>		
SCN1270 Science 10 ..... (5)	SCN2231 Biology 20 ..... (5) SCN2796 Chemistry 20 ..... (5) SCN2797 Physics 20 ..... (5) SCN2270 Science 20 ..... (5) SCN2288 Science 24 ..... (5)	SCN3230 Biology 30 ..... (5)
		SCN3796 Chemistry 30 ..... (5)
		SCN3797 Physics 30 ..... (5)
SCN1288 Science 14 ..... (5)		SCN3270 Science 30 ..... (5)
<b>SOCIAL STUDIES</b>		
SST1771 Social Studies 10-1 ..... (5)	SST2771 Social Studies 20-1 ..... (5)	SST3771 Social Studies 30-1 ..... (5)
SST1772 Social Studies 10-2 ..... (5)	SST2772 Social Studies 20-2 ..... (5)	SST3772 Social Studies 30-2 ..... (5)
<b>CAREER AND LIFE MANAGEMENT (CALM)</b>		
	PED0770 Career and Life Management ..... (3)	
<b>PHYSICAL EDUCATION</b>		
PED1445 Physical Education 10 ..... (3) (4) (5)	PED2445 Physical Education 20 ..... (3) (4) (5)	PED3445 Physical Education 30 ..... (3) (4) (5)
<b>FINE ARTS</b>		
FNA1400 Art 10 ..... (3) (4) (5)	FNA2400 Art 20 ..... (3) (4) (5)	FNA3400 Art 30 ..... (5)
FNA1405 Art 11 ..... (3) (4) (5)	FNA2405 Art 21 ..... (3) (4) (5)	FNA3405 Art 31 ..... (5)
FNA1410 Drama 10 ..... (3) (5)	FNA2410 Drama 20 ..... (3) (5)	FNA3410 Drama 30 ..... (5)
FNA1420 Choral Music 10 ..... (3) (5)	FNA2420 Choral Music 20 ..... (3) (5)	FNA3420 Choral Music 30 ..... (5)
FNA1424 General Music 10 ..... (3) (5)	FNA2424 General Music 20 ..... (3) (5)	FNA3424 General Music 30 ..... (3) (5)
FNA1425 Instrumental Music 10 ..... (3) (5)	FNA2425 Instrumental Music 20 ..... (3) (5)	FNA3425 Instrumental Music 30 ..... (5)

**1** Mathematics 30-1 is a prerequisite or co-requisite for Mathematics 31.

Grade 10	Grade 11	Grade 12
<b>SOCIAL SCIENCES</b>		
	SSN2155 Political Thinking 20 ..... (3)	
	SSN2156 Comparative Government 20 ..... (3)	
	SSN2160 Religious Ethics 20 ..... (3)	
	SSN2161 Religious Meanings 20 ..... (3)	
	SSN2166 Local and Canadian Geography 20 ..... (3)	
	SSN2171 Personal Psychology 20 ..... (3)	
	SSN2172 General Psychology 20 ..... (3)	
	SSN2176 General Sociology 20 ..... (3)	
	SSN2177 Sociological Institutions 20 ..... (3)	
	SSN2181 Origins of Western Philosophy 20 ..... (3)	
	SSN2182 Contemporary Western Philosophy 20 ..... (3)	
	SSN2185 Western Canadian History 20 ..... (3)	
	SSN2186 Canadian History 20 ..... (3)	
	SSN2187 Economics for Consumers 20 ..... (3)	
		SSN3156 International Politics 30 ..... (3)
		SSN3161 World Religions 30 ..... (3)
		SSN3166 World Geography 30 ..... (3)
		SSN3171 Experimental Psychology 30 ..... (3)
		SSN3175 Cultural and Physical Anthropology 30 ..... (3)
		SSN3176 Applied Sociology 30 ..... (3)
		SSN3182 Philosophies of Man 30 ..... (3)
		SSN3183 Microeconomics 30 ..... (3)
		SSN3185 Western World History 30 ..... (3)
		SSN3194 Macroeconomics 30 ..... (3)
<b>ABORIGINAL STUDIES</b>		
SSN1154 Aboriginal Studies 10 ..... (3) (5)	SSN2154 Aboriginal Studies 20 ..... (3) (5)	SSN3154 Aboriginal Studies 30 ..... (3) (5)
<b>OTHER INSTRUCTION</b>		
OTH1910 Career Internship 10 ..... (3) (4) (5)		
OTH1998 Work Experience 15 <b>1</b>	OTH2998 Work Experience 25 <b>1</b>	OTH3998 Work Experience 35 <b>1</b>
OTH1999 Special Projects 10 <b>2</b>	OTH2999 Special Projects 20 <b>2</b>	OTH3999 Special Projects 30 <b>2</b>

- 1** Each course, at each level, may be offered for 3, 4, 5, 6, 7, 8, 9, or 10 credits. Since the 1994–1995 school year, the maximum total that can be credited toward the 100-credit completion requirement is 15 credits. The course challenge and waiver of prerequisite provisions do not apply to work experience courses.
- 2** Each course, at each level, may be offered for 1, 2, 3, 4, or 5 credits. The course challenge and waiver of prerequisite provisions do not apply to special projects courses.

Grade 10	Grade 11	Grade 12
<b>Green Certificate Courses</b>		
Green Certificate courses are not sequential. They may be taken in any order. Each Green Certificate course is coded as a 33-level course and all credits earned in Green Certificate courses count toward Grade 12 completion requirements.		
<b>Cow–Calf Beef Production Technician</b>		
OTH9900 Cow–Calf Operations and Care 33.....(6)	OTH9901 Cow–Calf Processes and Practices 33.....(5)	OTH9902 Cow–Calf Husbandry and Systems 33.....(5)
<b>Dairy Production Technician</b>		
OTH9903 Dairy Operations and Care 33 (6)	OTH9904 Dairy Processes and Practices 33.....(5)	OTH9905 Dairy Husbandry and Systems 33.....(5)
<b>Feedlot Beef Production Technician</b>		
OTH9906 Feedlot Operations and Care 33.....(6)	OTH9907 Feedlot Processes and Practices 33.....(5)	OTH9908 Feedlot Husbandry and Systems 33.....(5)
<b>Field Crop Production Technician</b>		
OTH9909 Field Crop Operations and Care 33.....(6)	OTH9910 Field Crop Processes and Practices 33.....(5)	OTH9911 Field Crop Support Systems 33... (5)
<b>Irrigated Field Crop Production Technician</b>		
OTH9912 Irrigated Field Crop Operations and Care 33.....(6)	OTH9913 Irrigated Field Crop Processes and Practices 33.....(5)	OTH9914 Irrigated Field Crop Support Systems 33.....(5)
<b>Sheep Production Technician</b>		
OTH9915 Sheep Operations and Care 33.....(6)	OTH9916 Sheep Processes and Practices 33.....(5)	OTH9917 Sheep Husbandry and Systems 33.....(5)
<b>Swine Production Technician</b>		
OTH9918 Swine Operations and Care 33..(6)	OTH9919 Swine Processes and Practices 33.....(5)	OTH9920 Swine Husbandry and Systems 33.....(5)
<b>Bee Keeper Production Technician</b>		
OTH9921 Bee Operations and Care 33.....(6)	OTH9922 Bee Production and Practices 33.....(5)	OTH9923 Bee Husbandry and Systems 33.....(5)
<b>Equine Technician</b>		
OTH9924 Equine Operations and Care 33.....(6)	OTH9925 Equine Processes and Practices 33.....(5)	OTH9926 Equine Husbandry and Systems 33.....(5)
<b>Greenhouse Technician</b>		
OTH9927 Greenhouse Operations and Care 33.....(6)	OTH9928 Greenhouse Processes and Practices 33.....(5)	OTH9929 Greenhouse Support Systems 33.....(5)
<b>Poultry Production Technician<sup>1</sup></b>		
OTH9930 Poultry Operations and Care 33.....(6)	OTH9931 Poultry Processes and Practices 33.....(5)	OTH9932 Broiler Chicken Production Husbandry and Systems 33.....(5)
		OTH9933 Broiler Hatching Egg Production Husbandry and Systems 33.....(5)
		OTH9934 Table Egg Production Husbandry and Systems 33.....(5)
		OTH9935 Turkey Production Husbandry and Systems 33.....(5)

<sup>1</sup> Poultry Production Technician has four streams. Each stream requires Poultry Operations and Care 33 and Poultry Processes and Practices 33. Please refer to the Scope and Sequence within the Green Certificate Program. <https://education.alberta.ca/off-campus-education>

Grade 10	Grade 11	Grade 12
<b>Knowledge and Employability</b>		
<b>Academics</b>		
KAE1780 English Language Arts 10-4 ..... (5)	KAE2780 English Language Arts 20-4 ..... (5)	KAE3780 English Language Arts 30-4 .... (5)
KAE1781 Social Studies 10-4 ..... (5)	KAE2781 Social Studies 20-4 ..... (5)	
KAE1782 Mathematics 10-4 ..... (5)	KAE2782 Mathematics 20-4 ..... (5)	
KAE1783 Science 10-4 ..... (5)	KAE2783 Science 20-4 ..... (5)	
KAE1784 Français 10-4 ..... (5)	KAE2784 Français 20-4 ..... (5)	KAE3784 Français 30-4 ..... (5)
<b>Occupations</b>		
<b>a) Art/Design and Communication</b>		
KAE1570 Art/Design 10-4 ..... (5)	KAE2570 Art/Design 20-4 ..... (5)	KAE3570 Art/Design 30-4 ..... (5)
KAE1571 Art/Media Communications 10-4 ..... (5)	KAE2571 Art/Media Communications 20-4 ..... (5)	KAE3571 Art/Media Communications 30-4 ..... (5)
<b>b) Auto Mechanics</b>		
KAE1572 Auto Mechanics 10-4 ..... (5)	KAE2572 Auto Mechanics 20-4 ..... (5)	KAE3572 Auto Mechanics 30-4 ..... (5)
	KAE2573 Auto Services 20-4 ..... (5)	KAE3573 Auto Services 30-4 ..... (5)
<b>c) Business Services</b>		
KAE1574 Business Services 10-4 .... (5)	KAE2574 Logistics 20-4 ..... (5)	KAE3574 Logistics 30-4 ..... (5)
	KAE2575 Office Services 20-4 ..... (5)	KAE3575 Office Services 30-4 ..... (5)
	KAE2576 Sales and Service 20-4 ..... (5)	KAE3576 Sales and Service 30-4 ..... (5)
<b>d) Construction: Building</b>		
KAE1577 Construction: Building 10-4 ..... (5)	KAE2577 Woodworking and Cabinetry 20-4 ..... (5)	KAE3577 Woodworking and Cabinetry 30-4 ..... (5)
	KAE2578 Wood Frame Construction 20-4 ..... (5)	KAE3578 Wood Frame Construction 30-4 ..... (5)
<b>e) Construction: Metal Fabrication</b>		
KAE1579 Construction: Metal Fabrication 10-4 ..... (5)	KAE2579 Construction Systems 20-4 ..... (5)	KAE3579 Construction Systems 30-4 ..... (5)
	KAE2580 Metal Fabrication 20-4 ..... (5)	KAE3580 Metal Fabrication 30-4 ..... (5)
<b>f) Cosmetology</b>		
KAE1581 Cosmetology 10-4 ..... (5)	KAE2581 Cosmetology 20-4 ..... (5)	KAE3581 Cosmetology 30-4 ..... (5)
	KAE2582 Esthetics 20-4 ..... (5)	KAE3582 Esthetics 30-4 ..... (5)
<b>g) Fabrics</b>		
KAE1583 Fabrics 10-4 ..... (5)	KAE2583 Fashion Textiles 20-4 ..... (5)	KAE3583 Fashion Textiles 30-4 ..... (5)
	KAE2584 Industrial Textiles 20-4 ..... (5)	KAE3584 Industrial Textiles 30-4 ..... (5)
<b>h) Foods</b>		
KAE1585 Foods 10-4 ..... (5)	KAE2585 Commercial Cooking 20-4 ..... (5)	KAE3585 Commercial Cooking 30-4 ..... (5)
	KAE2586 Food Preparation and Service 20-4 ..... (5)	KAE3586 Food Preparation and Service 30-4 ..... (5)
<b>i) Horticulture</b>		
KAE1587 Horticulture 10-4 ..... (5)	KAE2587 Greenhouse and Nursery 20-4 ..... (5)	KAE3587 Greenhouse and Nursery 30-4 ..... (5)
	KAE2588 Landscaping 20-4 ..... (5)	KAE3588 Landscaping and Maintenance 30-4 ..... (5)
<b>j) Human Care</b>		
KAE1589 Human Care 10-4 ..... (5)	KAE2589 Child Care 20-4 ..... (5)	KAE3589 Child Care 30-4 ..... (5)
	KAE2590 Home Care 20-4 ..... (5)	KAE3590 Home Care 30-4 ..... (5)

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Grade 10	Grade 11	Grade 12
<b>Knowledge and Employability</b> (continued)		
<b>k) Natural Resources</b>		
KAE1591 Natural Resources 10-4 ... (5)	KAE2591 Agriculture 20-4 ..... (5)	KAE3591 Agriculture 30-4 ..... (5)
	KAE2592 Forestry 20-4 ..... (5)	KAE3592 Forestry 30-4 ..... (5)
	KAE2593 Oil and Gas 20-4 ..... (5)	KAE3593 Oil and Gas 30-4 ..... (5)
<b>Practicum</b>		
<b>Workplace Readiness</b>		
KAE1594 Workplace Readiness 10-4 ..... (5)	KAE2594 Workplace Practicum 20-4A.... (5) ①	KAE3594 Workplace Practicum 30-4A .... (5) ①
	KAE2595 Workplace Practicum 20-4B.... (5) ①	KAE3595 Workplace Practicum 30-4B .... (5) ①
	KAE2596 Workplace Practicum 20-4C.... (5) ①	KAE3596 Workplace Practicum 30-4C .... (5) ①
	KAE2597 Workplace Practicum 20-4D.... (5) ①	KAE3597 Workplace Practicum 30-4D .... (5) ①

① Students may take more than one practicum course at the 20 and 30 levels depending on the number of completed prerequisite occupational courses.

**CAREER AND TECHNOLOGY STUDIES★**

**Agricultural Equipment Technician Apprenticeship** [Each course is worth 1 credit.] ①—Trades, Manufacturing & Transportation (TMT)

AEA3400	Tools & Materials	AEA3450	Farm Equipment 2
AEA3405	Welding Equipment	AEA3455	Farm Equipment 3
AEA3410	Electric Welding	AEA3460	Power Transmission
AEA3415	Electrical Fundamentals	AEA3465	Gears & Axles
AEA3420	Current & Resistance	AEA3470	AEA Practicum A
AEA3425	Batteries & Diagnostics	AEA3475	AEA Practicum B
AEA3430	Electrical Diagnostics	AEA3480	AEA Practicum C
AEA3435	Hydraulic Fundamentals	AEA3485	AEA Practicum D
AEA3440	Hydraulic Systems	AEA3900	Apprenticeship Safety
AEA3445	Farm Equipment 1		

**Agriculture** [Each course is worth 1 credit.] ①—Natural Resources (NAT)

AGR1010	Introduction to Agriculture	AGR2120	Soils Management 1
AGR1040	Introduction to Animal Basics	AGR2130	Integrated Pest Management
AGR1050	Plant Propagation	AGR2150	Greenhouse/Nursery Crops 2
AGR1055	Gardening	AGR2910	AGR Project B
AGR1070	Landscaping 1	AGR2920	AGR Project C
AGR1080	Floral Design – Mechanics	AGR2950	AGR Intermediate Practicum
AGR1085	Floral Design 1	AGR3000	Agriculture Safety
AGR1100	Agriculture Technology	AGR3030	Field Crops 2
AGR1150	Greenhouse/Nursery Crops 1	AGR3040	Livestock/Poultry 2
AGR1910	AGR Project A	AGR3050	Agrifoods 2
AGR2010	Diversity in Agriculture	AGR3060	Landscaping 3
AGR2020	Animal Husbandry/Welfare	AGR3070	Equine 2
AGR2030	Field Crops 1	AGR3085	Floral Design 3
AGR2040	Livestock/Poultry 1	AGR3095	Display Design
AGR2045	Companion Animals	AGR3100	Biotechnology
AGR2050	Agrifoods 1	AGR3120	Soils Management 2
AGR2060	Landscaping 2	AGR3150	Greenhouse/Nursery Crops 3
AGR2070	Equine 1	AGR3160	Turf Management
AGR2085	Floral Design 2	AGR3910	AGR Project D
AGR2095	Indoor Plants	AGR3920	AGR Project E
AGR2100	Protective Enclosures	AGR3950	AGR Advanced Practicum

**Auto Body Technician Apprenticeship** [Each course is worth 1 credit.] ①—Trades, Manufacturing & Transportation (TMT)

ABA3401	Workplace Skills	ABA3425	Masking
ABA3402	Tools, Batteries & Detailing	ABA3430	Undercoating
ABA3405	Removal & Installation 1	ABA3435	ABA Practicum A
ABA3406	Removal & Installation 2	ABA3440	ABA Practicum B
ABA3410	Substrates	ABA3445	ABA Practicum C
ABA3415	Fillers	ABA3450	ABA Practicum D
ABA3420	Surface Preparation	ABA3900	Apprenticeship Safety

**Automotive Service Technician Apprenticeship** [Each course is worth 1 credit.] ①—Trades, Manufacturing & Transportation (TMT)

ASA3400	Basic Tools & Materials	ASA3440	Disc & Drum Brakes
ASA3402	Vehicle Service Information	ASA3445	Brake System Repairs
ASA3405	Electrical Principles	ASA3450	Wheels & Drive Lines
ASA3410	Electrical Circuits	ASA3452	Maintenance & Trailers
ASA3412	Electrical Service	ASA3455	ASA Practicum A
ASA3415	Frames & Undercarriage	ASA3460	ASA Practicum B
ASA3420	Steering Systems	ASA3465	ASA Practicum C
ASA3425	Suspension Systems	ASA3470	ASA Practicum D
ASA3430	Alignment Procedures	ASA3900	Apprenticeship Safety
ASA3435	Brake Fundamentals		

(continued)

★ CTS courses are listed under their respective occupational areas.

① Prerequisite courses are identified in the program of studies for each CTS course.



<b>CAREER AND TECHNOLOGY STUDIES★</b>			
<b>Baker Apprenticeship</b> [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)			
BKA3400	Tools & Equipment	BKA3445	Pastries
BKA3405	Raised Goods Theory 1	BKA3450	Custards & Fillings
BKA3410	Raised Goods Practical 1	BKA3455	Icings & Piping
BKA3415	Raised Goods Theory 2	BKA3460	Baking Math
BKA3420	Raised Goods Practical 2	BKA3465	BKA Practicum A
BKA3425	Baking & Frying	BKA3470	BKA Practicum B
BKA3430	Cakes	BKA3475	BKA Practicum C
BKA3435	Cookies	BKA3480	BKA Practicum D
BKA3440	Quick Breads	BKA3900	Apprenticeship Safety
<b>Cabinetmaker Apprenticeship</b> [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)			
CMA3400	Properties of Wood	CMA3450	Drafting Basics
CMA3405	Processing Lumber	CMA3455	Drawings & Cut Lists
CMA3410	Adhesives & Fasteners	CMA3460	CAD & Print Reading
CMA3415	Abrasives & Joinery	CMA3465	Trade Mathematics
CMA3420	Hand Tools 1	CMA3470	CMA Practicum A
CMA3425	Hand Tools 2	CMA3475	CMA Practicum B
CMA3430	Electric & Air Tools	CMA3480	CMA Practicum C
CMA3435	Power Saws	CMA3485	CMA Practicum D
CMA3440	Tooling Equipment	CMA3900	Apprenticeship Safety
CMA3445	Band Saws & Planers		
<b>Career Transitions</b> [Each course is worth 1 credit.] ❶			
CTR1010	Job Preparation	CTR3010	Preparing for Change
CTR2010	Job Maintenance	CTR3310	Career Directions—Transitions
CTR2310	Career Directions—Expansion		
<b>Carpenter Apprenticeship</b> [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)			
CRA3402	Building Materials	CRA3452	Sketching & Drawing
CRA3407	Hand Tools Theory	CRA3457	Drawing Principles
CRA3412	Hand Tools Practical	CRA3462	Math Concepts
CRA3417	Portable Power Tools	CRA3467	Estimating
CRA3422	Stationary Tools	CRA3470	CRA Practicum A
CRA3427	Accessory Tools	CRA3475	CRA Practicum B
CRA3432	Building Foundations	CRA3480	CRA Practicum C
CRA3437	Foundations Theory	CRA3485	CRA Practicum D
CRA3442	Foundations Practical	CRA3900	Apprenticeship Safety
CRA3447	Floor Frames		
<b>Communication Technician Apprenticeship</b> [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)			
CTA3400	Electricity Fundamentals	CTA3440	Network Fundamentals
CTA3405	AC/DC	CTA3445	Network Devices & IP
CTA3410	Basic Electricity	CTA3450	CTA Practicum A
CTA3415	Mathematics	CTA3455	CTA Practicum B
CTA3420	Outside Cabling	CTA3460	CTA Practicum C
CTA3425	Inside Cabling	CTA3465	CTA Practicum D
CTA3430	Telephone Basics	CTA3900	Apprenticeship Safety
CTA3435	Switching & Equipment		

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Communication Technology** [Each course is worth 1 credit.] ❶—Media, Design & Communication Arts (MDC)

COM1005	Visual Composition	COM2285	Com Tech Client Services 1
COM1015	Media	COM2910	COM Project B
COM1025	Typography	COM2920	COM Project C
COM1035	Graphics Tools	COM2950	COM Intermediate Practicum
COM1055	Web Design 1	COM3005	Creative Writing
COM1105	Audio/Video	COM3025	Electronic Layout & Publishing 2
COM1145	Animation 1	COM3035	Raster Graphics 2
COM1165	Printing 1	COM3045	Vector Graphics 2
COM1205	Photography – Introduction	COM3055	Rich Media – Basics
COM1215	Photography – Exposure	COM3065	Rich Media – Programming
COM1255	E-Learning & Learning Management Systems	COM3075	Cascading Style Sheets
COM1275	Photography – Digital Processing 1	COM3085	Content Management Systems
COM1910	COM Project A	COM3105	AV Preproduction 2
COM2015	Media Impact	COM3115	AV Production 2
COM2025	Electronic Layout & Publishing 1	COM3125	AV Postproduction 2
COM2035	Raster Graphics 1	COM3135	Audio Techniques
COM2045	Vector Graphics 1	COM3145	Animation 3
COM2055	Web Design 2	COM3155	Design – Advertising Campaigns
COM2105	AV Preproduction 1	COM3165	AV Broadcasting
COM2115	AV Production 1	COM3205	Photography – Lighting
COM2125	AV Postproduction 1	COM3215	Photography – Photojournalism
COM2145	Animation 2	COM3225	Photography – Colour
COM2155	Design – Brand Identity	COM3235	Photography – B/W Digital Techniques
COM2165	Printing 2	COM3245	Photography – Outdoor
COM2175	Interactive Presentation	COM3275	Photography – Digital Processing 2
COM2205	Photography – Composition	COM3285	Com Tech Client Services 2
COM2215	Photography – Communication	COM3910	COM Project D
COM2225	Photography – Darkroom Techniques	COM3920	COM Project E
COM2235	Photography – Lenses	COM3950	COM Advanced Practicum

**Community Care Services** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

CCS1020	Back Care Basics	CCS3030	Aging
CCS1030	Caring for Body Systems 1	CCS3050	Supporting Positive Behaviour
CCS1080	Community Volunteerism 1	CCS3060	Supporting Persons with Disabilities 1
CCS1910	CCS Project A	CCS3070	Supporting Persons with Disabilities 2
CCS2010	Health Care 1	CCS3080	Community Enhancement
CCS2030	Caring for Body Systems 2	CCS3110	Early Learning & Child Care 1
CCS2040	Integrative Health	CCS3120	Early Learning & Child Care 2
CCS2080	Community Volunteerism 2	CCS3130	Early Learning & Child Care 3
CCS2910	CCS Project B	CCS3140	Early Learning & Child Care 4
CCS2920	CCS Project C	CCS3150	Early Learning & Child Care 5
CCS2950	CCS Intermediate Practicum	CCS3910	CCS Project D
CCS3010	Health Care 2	CCS3920	CCS Project E
CCS3020	Health Care 3	CCS3950	CCS Advanced Practicum

**Computing Science** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

CSE1010	Computer Science 1	CSE2950	CSE Intermediate Practicum
CSE1110	Structured Programming 1	CSE3010	Computer Science 3
CSE1120	Structured Programming 2	CSE3020	Computer Science 4
CSE1210	Client-side Scripting 1	CSE3110	Iterative Algorithm 1
CSE1220	Client-side Scripting 2	CSE3120	Object-oriented Programming 1
CSE1240	Robotics Programming 1	CSE3130	Object-oriented Programming 2
CSE1910	CSE Project A	CSE3140	Second Language Programming 2
CSE2010	Computer Science 2	CSE3210	Server-side Scripting 1
CSE2110	Procedural Programming 1	CSE3240	Robotics Programming 3
CSE2120	Data Structures 1	CSE3310	Recursive Algorithms 1
CSE2130	Files & File Structures 1	CSE3320	Dynamic Data Structures 1
CSE2140	Second Language Programming 1	CSE3330	Dynamic Data Structures 2
CSE2210	Client-side Scripting 3	CSE3340	Dynamic Data Structures 3
CSE2240	Robotics Programming 2	CSE3910	CSE Project D
CSE2910	CSE Project B	CSE3920	CSE Project E
CSE2920	CSE Project C	CSE3950	CSE Advanced Practicum

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Construction Technologies** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

CON1010	Construction Tools & Materials	CON2200	Product Development
CON1070	Building Construction	CON2910	CON Project B
CON1120	Product Management	CON2920	CON Project C
CON1130	Solid Stock Construction	CON2950	CON Intermediate Practicum
CON1140	Turning Operations	CON3010	Concrete – Structures & Finishes
CON1160	Manufactured Materials	CON3020	Masonry Work – Structures & Finishes
CON1180	Mould Making & Casting	CON3030	Wall & Ceiling Finishing
CON1910	CON Project A	CON3040	Stair Construction
CON2010	Site Preparation	CON3050	Roof Structures 2
CON2020	Concrete Forming	CON3060	Doors & Trim
CON2030	Alternative Foundations	CON3070	Floorcovering
CON2035	Framing Systems – Floor	CON3080	Energy-efficient Housing
CON2045	Framing Systems – Wall	CON3090	Renovations/Restorations
CON2050	Roof Structures 1	CON3105	Commercial Structures
CON2060	Doors, Windows & Siding	CON3110	Site Management
CON2070	Electrical Systems	CON3120	Tool Maintenance
CON2080	Plumbing Systems	CON3130	Furniture – Leg & Rail
CON2090	Climate Control Systems	CON3140	Furniture – Surface Enhancement
CON2100	Agri-structures	CON3150	Furniture Repair
CON2120	Multiple Materials	CON3160	Cabinetmaking – Cabinets & Countertops
CON2130	Furniture – Box Construction	CON3170	Cabinetmaking – Layout & Installation
CON2140	Furniture – Frame & Panel	CON3190	Production Planning
CON2150	Finishing & Refinishing	CON3200	Production Management
CON2160	Cabinetmaking – Web & Face Frame	CON3210	Framing Systems – Advanced
CON2170	Cabinetmaking – Door & Drawer	CON3910	CON Project D
CON2180	Wood Forming	CON3920	CON Project E
CON2190	Manufacturing Systems	CON3950	CON Advanced Practicum

**Cook Apprenticeship** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

CKA3401	Kitchen Orientation	CKA3451	Breakfast & Dairy
CKA3406	Kitchen Mathematics	CKA3456	Introduction to Baking
CKA3411	Meats & Seafood 1	CKA3461	Breads & Cookies
CKA3416	Meats & Seafood 2	CKA3466	Pies & Fillings
CKA3421	Cooking Proteins 1	CKA3560	CKA Practicum A
CKA3426	Cooking Proteins 2	CKA3565	CKA Practicum B
CKA3431	Stocks & Soups	CKA3570	CKA Practicum C
CKA3436	Thickeners & Sauces	CKA3575	CKA Practicum D
CKA3441	Fruits & Vegetables	CKA3900	Apprenticeship Safety
CKA3446	Starches & Salads		

**Cosmetology** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

COS1010	Personal & Professional Practices	COS2950	COS Intermediate Practicum
COS1020	Long Hair Design 1	COS3000	The Science of Cosmetology
COS1910	COS Project A	COS3010	Professional Relationships
COS2000	Salon Design	COS3020	Long Hair Design 3
COS2010	Long Hair Design 2	COS3280	Client Services & Sales 2
COS2210	Client Services & Sales 1	COS3910	COS Project D
COS2910	COS Project B	COS3920	COS Project E
COS2920	COS Project C	COS3950	COS Advanced Practicum

**Criminal Justice Studies** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

CJS3400	Criminal Justice Systems	CJS3465	Communication Skills
CJS3405	Criminal Justice Principles	CJS3470	Interpersonal Skills
CJS3410	Police Services & Trends	CJS3475	Relationships & Roles
CJS3415	Courts & Sentencing	CJS3480	Communication Contexts & Barriers
CJS3420	Correctional Systems	CJS3485	CJS Communication Project
CJS3425	Health & Wellness Foundations	CJS3490	Basic Security Procedures
CJS3430	Personal Fitness Standards	CJS3495	Advanced Security Procedures
CJS3435	Safety & Risk Management	CJS3500	CJS Practice 1
CJS3440	Professional Ethics & Standards	CJS3505	CJS Practice 2
CJS3445	Ethical Principles	CJS3510	CJS Practice 3
CJS3450	Ethical Dilemmas	CJS3515	CJS Practice 4
CJS3455	Case Studies in Ethics	CJS3520	CJS Practice 5
CJS3460	CJS Ethics Project		

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Design Studies** [Each course is worth 1 credit.] ❶—Media, Design & Communication Arts (MDC)

DES1010	Sketch, Draw & Model	DES3045	3-D Design 3
DES1020	The Design Process	DES3055	CAD 3
DES1030	2-D Design 1	DES3065	Technical Design 3
DES1040	3-D Design 1	DES3075	Technical Drafting 3
DES1050	CAD 1	DES3095	Architectural Design
DES1060	Technical Design & Drafting 1	DES3105	Engineering Design
DES1910	DES Project A	DES3115	Industrial Design
DES2035	2-D Design 2	DES3125	Interior Design
DES2045	3-D Design 2	DES3135	Landscape Design
DES2055	CAD 2	DES3145	Modelling – Real
DES2060	Evolution of Design	DES3155	Modelling – Virtual
DES2065	Technical Design 2	DES3165	Presentation
DES2075	Technical Drafting 2	DES3170	Future of Design
DES2910	DES Project B	DES3910	DES Project D
DES2920	DES Project C	DES3920	DES Project E
DES2950	DES Intermediate Practicum	DES3950	DES Advanced Practicum
DES3035	2-D Design 3		

**Electrician Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

ETA3400	Electrical Principles	ETA3450	Introduction to Code
ETA3405	Electrical Concepts	ETA3455	Conductors & Grounding
ETA3410	Resistive Circuits	ETA3460	Wiring & Installation
ETA3415	Edison 3-Wire System	ETA3465	Diagrams & Drawings
ETA3420	Power & Efficiency	ETA3470	ETA Practicum A
ETA3425	Batteries & Magnetism	ETA3475	ETA Practicum B
ETA3430	Meters & Connections	ETA3480	ETA Practicum C
ETA3435	Switching Circuits	ETA3485	ETA Practicum D
ETA3440	Relays & Controls	ETA3900	Apprenticeship Safety
ETA3445	Switches & Alarms		

**Electro-Technologies** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

ELT1010	Electro-assembly 1	ELT2170	Robotics Sensor 2
ELT1030	Conversion & Distribution	ELT2180	Process Control
ELT1050	Electronic Power Supply 1	ELT2910	ELT Project B
ELT1080	Control Systems 1	ELT2920	ELT Project C
ELT1090	Analog Communication 1	ELT2950	ELT Intermediate Practicum
ELT1110	Security Systems 1	ELT3010	Electro-assembly 3
ELT1130	Robotics 1	ELT3020	Electronic Servicing
ELT1140	Robotics Applications	ELT3030	Power Systems & Services
ELT1910	ELT Project A	ELT3040	Generation/Transformation
ELT2010	Electro-assembly 2	ELT3110	Amplifiers
ELT2020	Electrical Servicing	ELT3140	Motors
ELT2030	Branch Circuit Wiring	ELT3150	Robotics 3
ELT2050	Electronic Power Supply 2	ELT3160	Control Applications
ELT2080	Control Systems 2	ELT3170	Robotics Microprocessors
ELT2090	Analog Communication 2	ELT3180	Robotics Vision Systems
ELT2110	Security Systems 2	ELT3190	Robotics Kinematics & Behaviour
ELT2120	Electro-optics	ELT3200	Robotics Artificial Intelligence
ELT2130	Magnetic Control Devices	ELT3205	Expert Systems
ELT2140	Robotics 2	ELT3910	ELT Project D
ELT2150	Electronic Controls	ELT3920	ELT Project E
ELT2160	Robotics Sensor 1	ELT3950	ELT Advanced Practicum

**Enterprise and Innovation** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

ENT1010	Challenge & Opportunity	ENT2920	ENT Project C
ENT1020	Elements of a Venture Plan	ENT2950	ENT Intermediate Practicum
ENT1910	ENT Project A	ENT3010	Managing the Venture
ENT2010	Analyzing Ventures	ENT3020	Expanding the Venture
ENT2020	Financing Ventures	ENT3910	ENT Project D
ENT2030	Marketing the Venture	ENT3920	ENT Project E
ENT2040	Create the Venture	ENT3950	ENT Advanced Practicum
ENT2910	ENT Project B		

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Environmental Stewardship** [Each course is worth 1 credit.] ❶—Natural Resources (NAT)

ENS1010	Introduction to Stewardship	ENS2910	ENS Project B
ENS1020	Fostering Stewardship	ENS2920	ENS Project C
ENS1030	Consumerism	ENS2950	ENS Intermediate Practicum
ENS1040	Living with the Environment	ENS3030	The Green Economy
ENS1110	Natural Resources	ENS3040	Energy & the Environment
ENS1115	Resource Management	ENS3050	Environmental Politics
ENS1910	ENS Project A	ENS3110	Integrated Resource Management
ENS2030	Ecological Economics	ENS3120	Water Management 2
ENS2040	Environmental Health & Safety	ENS3130	Sustainable Energy
ENS2050	Environmental Ethics	ENS3210	Sustainable Community Planning & Design
ENS2120	Water Management 1	ENS3220	Energy Conservation Applications
ENS2130	Renewable & Nonrenewable Energy Resources	ENS3910	ENS Project D
ENS2140	By-product Management	ENS3920	ENS Project E
ENS2210	Sustainable Building Design & Construction	ENS3950	ENS Advanced Practicum
ENS2220	Energy Conservation Principles		

**Esthetics** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

EST1020	Skin Care Practices	EST3030	Body Therapy
EST1025	Skin Care Practices – Client Services	EST3040	Hair Removal
EST1070	Manicuring 1	EST3045	Hair Removal – Client Services
EST1140	Theatrical Make-up 1	EST3060	Facial & Body Adornment
EST1910	EST Project A	EST3070	Pedicuring
EST2030	Facials	EST3075	Manicuring & Pedicuring – Client Services
EST2035	Facials – Client Services	EST3090	Nail Enhancement – Gel
EST2050	Make-up	EST3100	Nail Enhancement – Acrylic
EST2055	Make-up – Client Services	EST3105	Nail Enhancement – Client Services
EST2070	Manicuring 2	EST3115	Esthetics – Client Services
EST2075	Manicuring 3 – Client Services	EST3140	Theatrical Make-up 3
EST2090	Nail Art	EST3145	Theatrical Make-up 4 – Client Services
EST2140	Theatrical Make-up 2	EST3150	Competition Esthetics
EST2910	EST Project B	EST3910	EST Project D
EST2920	EST Project C	EST3920	EST Project E
EST2950	EST Intermediate Practicum	EST3950	EST Advanced Practicum
EST3010	Spa Awareness		

**Fabrication Studies** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

FAB1010	Fabrication Tools & Materials	FAB2160	Custom Fabrication
FAB1040	Oxyacetylene Welding	FAB2170	Pipe Fitting
FAB1048	Semi-automated/Automated Welding	FAB2910	FAB Project B
FAB1050	Basic Electric Welding	FAB2920	FAB Project C
FAB1090	Sheet Fabrication 1	FAB2950	FAB Intermediate Practicum
FAB1100	Fabrication Principles	FAB3010	Materials Testing
FAB1110	Bar & Tubular Fabrication	FAB3020	Metallurgy Fundamentals
FAB1120	Foundry – One-piece Pattern	FAB3030	Gas Tungsten Arc Welding
FAB1130	Principles of Machining	FAB3040	Specialized Welding
FAB1160	Production Systems	FAB3048	Flux Cored Arc Welding 2
FAB1910	FAB Project A	FAB3050	Arc Welding 3
FAB2010	Structural Engineering	FAB3060	Arc Welding 4
FAB2020	Print Reading	FAB3070	Pipe & Tubular Welding
FAB2030	Oxyfuel Welding	FAB3080	Automated Welding
FAB2040	Thermal Cutting	FAB3090	Sheet Fabrication 4
FAB2048	Flux Cored Arc Welding 1	FAB3110	Sheet Fabrication 5
FAB2050	Arc Welding 1	FAB3120	Foundry – Core Moulding
FAB2060	Arc Welding 2	FAB3130	Precision Turning 2
FAB2070	Gas Metal Arc Welding 1	FAB3140	Precision Milling 2
FAB2090	Sheet Fabrication 2	FAB3150	CNC Milling
FAB2100	Sheet Fabrication 3	FAB3160	Prefabrication Principles
FAB2110	Forging Fundamentals	FAB3170	Gas Metal Arc Welding 2
FAB2120	Foundry – Split Pattern	FAB3910	FAB Project D
FAB2130	Precision Turning 1	FAB3920	FAB Project E
FAB2140	Precision Milling 1	FAB3950	FAB Advanced Practicum
FAB2150	CNC Turning		

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Fashion Studies** [Each course is worth 1 credit.] ❶—Media, Design & Communication Arts (MDC)

FAS1000	Fashion Illustration 1	FAS2180	Creative Costuming
FAS1010	Fashion Dynamics	FAS2190	Textile Arts 2
FAS1020	Textiles & Their Care	FAS2910	FAS Project B
FAS1030	Sewing Fundamentals	FAS2920	FAS Project C
FAS1050	Redesign, Recycle & Restore	FAS2950	FAS Intermediate Practicum
FAS1060	Creating Accessories 1	FAS3000	Fashion Illustration 3
FAS1080	Knitwear	FAS3020	Computer-aided Pattern Design 2
FAS1130	Construction Fundamentals 1	FAS3030	Pattern Drafting 2
FAS1170	Digital Embroidery Tools 1	FAS3040	Contemporary Tailoring
FAS1190	Textile Arts 1	FAS3050	Flat Pattern 2
FAS1910	FAS Project A	FAS3060	Couture
FAS2000	Fashion Illustration 2	FAS3070	Creators of Fashion
FAS2030	Computer-aided Pattern Design 1	FAS3080	Cultural Fashions
FAS2040	Evolution of Fashion	FAS3090	Specialty Fabrics 2
FAS2050	Flat Pattern 1	FAS3120	Wearable Art
FAS2060	Pattern Drafting 1	FAS3130	Construction Fundamentals 3
FAS2080	Activewear	FAS3140	Fashion Retailing
FAS2090	Specialty Fabrics 1	FAS3150	Draping
FAS2100	Sewing for Others	FAS3160	Industrial Sewing Techniques
FAS2110	Creating Home Decor	FAS3170	Digital Embroidery Tools 3
FAS2120	Surface Embellishment	FAS3180	Theatrical Costuming
FAS2130	Construction Fundamentals 2	FAS3190	Textile Arts 3
FAS2140	Fashion Merchandising	FAS3200	Outdoor Clothing
FAS2150	Upholstery	FAS3910	FAS Project D
FAS2160	Creating Accessories 2	FAS3920	FAS Project E
FAS2170	Digital Embroidery Tools 2	FAS3950	FAS Advanced Practicum

**Financial Management** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

FIN1010	Personal Financial Information	FIN3010	Advanced Accounting
FIN1015	Accounting Prep	FIN3020	Management Accounting
FIN1020	Accounting Cycle 1	FIN3030	Capital Accounting
FIN1030	Accounting Cycle 2	FIN3040	Financial Statements
FIN1910	FIN Project A	FIN3050	Small Business Taxation
FIN2020	Retail Accounting 1	FIN3060	Financial Analysis
FIN2030	Retail Accounting 2	FIN3070	Financial Planning
FIN2040	Accounting Software	FIN3080	Personal Investment Planning 1
FIN2060	Personal Taxation	FIN3090	Personal Investment Planning 2
FIN2070	Payroll Accounting	FIN3910	FIN Project D
FIN2910	FIN Project B	FIN3920	FIN Project E
FIN2920	FIN Project C	FIN3950	FIN Advanced Practicum
FIN2950	FIN Intermediate Practicum		

**Foods** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

FOD1010	Food Basics	FOD2180	Vegetables & Fruits
FOD1020	Contemporary Baking	FOD2190	Grains, Legumes, Pulses, Nuts & Seeds
FOD1030	Snacks & Appetizers	FOD2910	FOD Project B
FOD1040	Meal Planning 1	FOD2920	FOD Project C
FOD1050	Fast & Convenience Foods	FOD2950	FOD Intermediate Practicum
FOD1060	Canadian Heritage Foods	FOD3010	Food for Life Stages
FOD1070	Farm to Table	FOD3020	Nutrition & Digestion
FOD1080	Food & Nutrition Basics	FOD3030	Creative Baking
FOD1910	FOD Project A	FOD3040	Yeast Products
FOD2030	Food Decisions & Health	FOD3050	Advanced Soups & Sauces
FOD2040	Cake & Pastry	FOD3060	Food Presentation
FOD2050	Bread Products	FOD3070	Short-order Cooking
FOD2060	Milk Products & Eggs	FOD3080	Advanced Meat Cookery
FOD2070	Soups & Sauces	FOD3090	Butcher Shop
FOD2090	Creative Cold Foods	FOD3100	Entertaining with Food
FOD2100	Basic Meat Cookery	FOD3110	Food Processing
FOD2110	Fish & Poultry	FOD3120	Food Evolution/Innovation
FOD2120	Meal Planning 2	FOD3130	The Food Entrepreneur
FOD2130	Vegetarian Cuisine	FOD3160	Regional Cuisine
FOD2140	Rush-hour Cuisine	FOD3900	Food Safety
FOD2150	Safe Food Handling	FOD3910	FOD Project D
FOD2160	Food Venture	FOD3920	FOD Project E
FOD2170	International Cuisine	FOD3950	FOD Advanced Practicum

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Forestry** [Each course is worth 1 credit.] ❶—Natural Resources (NAT)

FOR1010	Forests & Society	FOR2920	FOR Project C
FOR1020	Forest Ecology in Regions of Canada	FOR2950	FOR Intermediate Practicum
FOR1050	Forest Imagery	FOR3010	Issues & Trends in Forestry
FOR1100	Forest Use & Protection	FOR3060	Forest Mensuration 2
FOR1910	FOR Project A	FOR3080	Forest Research & Development
FOR2010	Forest Protection & Stewardship	FOR3090	Forest Ecology – Silvics & Succession
FOR2030	Regulating Alberta’s Forests	FOR3110	Silviculture
FOR2060	Forest Mensuration 1	FOR3910	FOR Project D
FOR2070	Sustainable Fibre Harvesting & Processing	FOR3920	FOR Project E
FOR2100	Forest Management	FOR3950	FOR Advanced Practicum
FOR2910	FOR Project B		

**Hairylist Apprenticeship** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

First Period		Second Period	
HSA3406	Work Environment	HSA3506	Styling, Perming and Colouring Tools and Equipment
HSA3411	Head Anatomy and Physiology	HSA3511	Drying Hair
HSA3416	Haircutting Tools and Equipment	HSA3516	Setting Wet Hair
HSA3421	Consultation and Draping	HSA3521	Styling Dry Hair
HSA3426	Salon Operations	HSA3526	Updo & Upstyle Style Techniques
HSA3431	Hair and Scalp Analysis	HSA3531	Style Hair Using Accessories
HSA3436	Shampoo and Condition Hair	HSA3536	Hair Wrapping 1
HSA3441	Principles of Haircutting and Styles	HSA3541	Hair Wrapping 2
HSA3446	Customizing Haircuts	HSA3546	Chemical Waving 1
HSA3451	Demonstrate the Principles of Haircutting	HSA3551	Chemical Waving 2
HSA3456	Demonstrate Haircutting on Various Types of Hair	HSA3556	Chemical Relaxers 1
HSA3461	Razor Cutting and Shear Cutting	HSA3561	Chemical Relaxers 2
HSA3466	Clipper Cutting	HSA3566	Colouring Hair 1
HSA3471	Texturizing Techniques	HSA3571	Colouring Hair 2
HSA3476	Various Haircuts	HSA3576	Colouring Hair 3
HSA3481	Customizing Techniques	HSA3581	Colouring Virgin Hair and Regrowth
HSA3486	Haircutting Techniques	HSA3586	Colouring Hair Using Special Effects
HSA3491	Facial and Nape Hair Theory	HSA3591	Lighten Virgin Hair and Regrowth
HSA3496	Facial and Nape Hair Trimming and Removal	HSA3596	Lighten Hair Using Special Effects
HSA3501	Style Hair	HSA3601	Colour Corrections
HSA3775	HSA Practicum A	HSA3606	Specialized Services and Standards
HSA3780	HSA Practicum B		
HSA3785	HSA Practicum C		
HSA3790	HSA Practicum D		
HSA3900	Apprenticeship Safety		

**Health Care Aide** [Each course is worth 1 credit except for\*.] ❶—Health, Recreation & Human Services (HRH)

HCA3401	Role and Responsibilities* (3 credits)	HCA3426	Meeting Complex Care Needs* (5 credits)
HCA3406	The Human Body, Health, and Chronic Illness* (3 credits)	HCA3431	Special Activities for Clients* (5 credits)
HCA3411	Communication and Documentation* (4 credits)	HCA3436	Clinical Placement 2* (6 credits)
HCA3416	Providing Person-centred Care and Comfort* (4 credits)	HCA3441	Consolidated Clinical Placement* (3 credits)
HCA3421	Clinical Placement 1* (3 credits)		

(continued)

★ CTS courses are listed under their respective occupational areas.

❶ Prerequisite courses are identified in the program of studies for each CTS course.

**CAREER AND TECHNOLOGY STUDIES★**

**Health Care Services** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

HCS1050	Musculoskeletal System	HCS2910	HCS Project B
HCS1060	Digestive System	HCS2920	HCS Project C
HCS1070	Respiratory System	HCS2950	HCS Intermediate Practicum
HCS1080	Cardiovascular System	HCS3000	Workplace Safety Systems
HCS1100	Infection & Immunity 1	HCS3010	Workplace Safety Practices
HCS1110	Infection & Immunity 2	HCS3020	First Responder 1
HCS1910	HCS Project A	HCS3030	First Responder 2
HCS2020	First Aid /CPR with AED	HCS3040	Child Care First Aid
HCS2050	Nervous System & Senses	HCS3050	Reproduction & Readiness for Parenting
HCS2060	Endocrine System	HCS3060	Pregnancy, Birth & Infant Care
HCS2070	Urinary System	HCS3150	Advances in Medical Technology
HCS2100	Infection & Immunity 3	HCS3910	HCS Project D
HCS2120	Pain & Pain Management	HCS3920	HCS Project E
HCS2130	Chronic Conditions	HCS3950	HCS Advanced Practicum

**Heavy Equipment Technician Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

HEA3400	Basic Tools & Materials	HEA3450	Electronics
HEA3405	Bearings & Seals	HEA3455	Air Brake Fundamentals
HEA3410	Frames & Suspension	HEA3460	Air Brake Mechanics
HEA3415	Wheels & Preventive Maintenance	HEA3465	Air Brake Service
HEA3420	Trailer Systems	HEA3470	HEA Practicum A
HEA3425	Brake Fundamentals	HEA3475	HEA Practicum B
HEA3430	Brake Service & Repair	HEA3480	HEA Practicum C
HEA3435	Hydraulic Systems	HEA3485	HEA Practicum D
HEA3440	Electrical Theory	HEA3900	Apprenticeship Safety
HEA3445	Electrical Service		

**Human & Social Services** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

HSS1010	Health Services Foundations	HSS2910	HSS Project B
HSS1020	Nutrition & Wellness	HSS2920	HSS Project C
HSS1030	Communication Skills for Health Professionals	HSS2950	HSS Intermediate Practicum
HSS1040	Developing Maturity & Independence	HSS3010	Professional Standards & Ethics
HSS1050	Introduction to Mentorship	HSS3020	Mental Health & Wellness
HSS1080	Leadership Fundamentals 1	HSS3050	Becoming a Mentee
HSS1090	Speaking & Presenting	HSS3060	Extending the Mentoring Relationship
HSS1100	Nature & Wellness	HSS3070	Peer Mentoring
HSS1910	HSS Project A	HSS3080	Leadership Fundamentals 3
HSS2020	Nurturing Children	HSS3090	Governance & Leadership
HSS2030	Perspectives on Interpersonal Relationships	HSS3910	HSS Project D
HSS2040	Family Foundations	HSS3920	HSS Project E
HSS2050	Becoming a Mentor	HSS3950	HSS Advanced Practicum
HSS2080	Leadership Fundamentals 2		

**Information Processing** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

INF1030	Word Processing 1	INF2910	INF Project B
INF1050	Database 1	INF2920	INF Project C
INF1060	Spreadsheet 1	INF2950	INF Intermediate Practicum
INF1070	Digital Presentation	INF3010	Hardware & Software Analysis
INF1910	INF Project A	INF3060	Word Processing 3
INF2020	Keyboarding	INF3080	Project Management Tools
INF2050	Word Processing 2	INF3095	Productivity Software Integration
INF2070	Database 2	INF3910	INF Project D
INF2080	Spreadsheet 2	INF3920	INF Project E
INF2090	Correspondence	INF3950	INF Advanced Practicum
INF2100	Reports		

(continued)

★ CTS courses are listed under their respective occupational areas.

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<b>CAREER AND TECHNOLOGY STUDIES★</b>			
<b>Instrumentation and Control Technician Apprenticeship</b> [Each course is worth 1 credit.] ❶— Trades, Manufacturing & Transportation (TMT)			
ISA3400	Tools & Equipment	ISA3450	Control Elements
ISA3405	Tube Practice	ISA3455	Control Valves
ISA3410	Pipe Practice	ISA3460	Applied Math
ISA3415	Electrical Theory	ISA3465	Applied Physics
ISA3420	Resistive Circuits	ISA3470	ISA Practicum A
ISA3425	Power & Efficiency	ISA3475	ISA Practicum B
ISA3430	Inductance & Capacitance	ISA3480	ISA Practicum C
ISA3435	Hazards & Regulations	ISA3485	ISA Practicum D
ISA3440	Pressure Measurement	ISA3900	Apprenticeship Safety
ISA3445	Calibration		
<b>Insulator Apprenticeship</b> [Each course is worth 1 credit.] ❶— Trades, Manufacturing & Transportation (TMT)			
INA3400	Introduction & Safety	INA3440	Cellular Glass
INA3405	Asbestos Awareness	INA3445	Mathematics
INA3410	Bonding	INA3450	Blueprints
INA3415	Pipe Insulation	INA3455	INA Practicum A
INA3420	Tools & Materials	INA3460	INA Practicum B
INA3425	Fibres & Foam	INA3465	INA Practicum C
INA3430	Polystyrenes & Wraps	INA3470	INA Practicum D
INA3435	Wool & Fibreglass	INA3900	Apprenticeship Safety
<b>Landscape Horticulturist Apprenticeship</b> [Each course is worth 1 credit.] ❶— Natural Resources (NAT)			
LGA3406	Equipment and Tools	LGA3456	Soil Management 2
LGA3411	Vehicle Transportation and Operation	LGA3461	Soilless Growing Media
LGA3416	Site Maintenance	LGA3466	Turfgrass
LGA3425	Plant Taxonomy	LGA3471	Fertilization
LGA3435	Botany 1	LGA3473	Exterior Softscape Maintenance
LGA3440	Botany 2	LGA3475	LGA Practicum A
LGA3441	Ecosystems	LGA3480	LGA Practicum B
LGA3446	Environmental Stewardship and Water Quality	LGA3485	LGA Practicum C
LGA3451	Soil Management 1	LGA3490	LGA Practicum D
		LGA3900	Apprenticeship Safety
<b>Legal Studies</b> [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)			
LGS1010	Private Law	LGS2950	LGS Intermediate Practicum
LGS1020	Public Law	LGS3010	Property Law
LGS1030	Relationship Law	LGS3020	Dispute Resolution
LGS1910	LGS Project A	LGS3040	Negligence
LGS2010	Family Law	LGS3050	Small Business Law
LGS2020	Employment Law	LGS3060	Controversy & Change
LGS2030	Environmental Law	LGS3070	Landmark Decisions
LGS2040	Aboriginal Law	LGS3080	Criminal Law
LGS2050	Law & the Traveller	LGS3910	LGS Project D
LGS2910	LGS Project B	LGS3920	LGS Project E
LGS2920	LGS Project C	LGS3950	LGS Advanced Practicum
<b>Logistics</b> [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)			
LOG1010	Logistics	LOG2920	LOG Project C
LOG1020	Warehouse & Distribute 1	LOG2950	LOG Intermediate Practicum
LOG1030	Traffic & Transport 1	LOG3010	Warehouse & Distribute 3
LOG1040	Purchasing 1	LOG3020	Traffic & Transport 3
LOG1910	LOG Project A	LOG3030	Purchasing 3
LOG2010	Warehouse & Distribute 2	LOG3040	Inventory Management 2
LOG2020	Traffic & Transport 2	LOG3910	LOG Project D
LOG2030	Purchasing 2	LOG3920	LOG Project E
LOG2040	Inventory Management 1	LOG3950	LOG Advanced Practicum
LOG2910	LOG Project B		

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Management and Marketing** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

MAM1010	Marketing & Management	MAM2950	MAM Intermediate Practicum
MAM1020	Quality Customer Service	MAM3010	The Business Organization
MAM1030	Communication Strategies 1	MAM3020	Business in the Canadian Economy
MAM1040	E-commerce 1	MAM3030	Business in the Global Marketplace
MAM1050	Agriculture Consumer Products & Services	MAM3040	Promotion – Sales Techniques
MAM1910	MAM Project A	MAM3050	Distributing Goods & Services
MAM2010	Managing for Quality	MAM3060	Setting Up a Retail Store
MAM2030	Visual Merchandising	MAM3070	Office Systems 2
MAM2040	Retail Operations	MAM3080	Communication Strategies 3
MAM2050	Office Systems 1	MAM3090	Records Management 2
MAM2055	Office Administration	MAM3100	Promotion – Broadcast Advertising
MAM2060	Communication Strategies 2	MAM3120	E-commerce 3
MAM2065	Professional Communication	MAM3130	Agriculture Marketing
MAM2080	Records Management 1	MAM3140	Energy & Resources Market Basics & Trends
MAM2090	Promotion – Print Advertising	MAM3150	The Forest Marketplace
MAM2110	E-commerce 2	MAM3910	MAM Project D
MAM2130	Energy & Resources Supply & Distribution	MAM3920	MAM Project E
MAM2910	MAM Project B	MAM3950	MAM Advanced Practicum
MAM2920	MAM Project C		

**Mechanics** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

MEC1010	Modes & Mechanisms	MEC2210	Touch-up & Finishing
MEC1015	Mechanics Tools & Materials	MEC2220	Interior Repairs
MEC1020	Vehicle Service & Care	MEC2910	MEC Project B
MEC1040	Engine Fundamentals	MEC2920	MEC Project C
MEC1090	Electrical Fundamentals	MEC2950	MEC Intermediate Practicum
MEC1110	Pneumatics & Hydraulics	MEC3010	Buying & Selling Vehicles
MEC1130	Mechanical Systems	MEC3020	Vehicle Value Appraisal
MEC1150	Ride & Control Systems	MEC3030	Engine Diagnosis
MEC1160	Structures & Materials	MEC3040	Engine Tune-up
MEC1165	Mechanics Welding Fundamentals	MEC3050	Engine Replacement
MEC1170	Metal Forming & Finishing	MEC3060	Engine Reconditioning – Head
MEC1190	Surface Preparation 1	MEC3070	Engine Reconditioning – Block
MEC1910	MEC Project A	MEC3080	Alternative Energy Systems
MEC2010	Vehicle Detailing	MEC3090	Computer Systems
MEC2020	Vehicle Maintenance	MEC3100	Safety Systems
MEC2030	Lubrication & Cooling	MEC3110	Climate Control
MEC2040	Fuel & Exhaust Systems	MEC3120	Power Assisting
MEC2050	Alternative Fuel Engines	MEC3130	Automatic Transmissions
MEC2060	Ignition Systems	MEC3140	Drive Train Repair
MEC2070	Emission Controls	MEC3150	Wheel Alignment
MEC2090	Electrical Components	MEC3160	Body Repair Estimation
MEC2100	Power Assist Accessories	MEC3170	Damage Analysis
MEC2110	Braking Systems	MEC3180	Damage Repair 1
MEC2120	Hydraulic Accessories	MEC3190	Damage Repair 2
MEC2130	Drive Line	MEC3200	Refinishing 2
MEC2140	Transmissions/Transaxles	MEC3210	Plastic & Fibreglass
MEC2150	Suspension Systems	MEC3220	Glass Replacement
MEC2160	Steering Systems	MEC3230	Refinishing 3
MEC2170	Metal Repair & Finishing	MEC3910	MEC Project D
MEC2180	Trim Replacement	MEC3920	MEC Project E
MEC2190	Surface Preparation 2	MEC3950	MEC Advanced Practicum
MEC2200	Refinishing 1		

**Industrial Mechanic (Millwright) Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

MWA3401	Hand Tools	MWA3436	Machining Operations 2
MWA3405	Measurement	MWA3441	Machining Operations 3
MWA3406	Power Tools	MWA3446	Machining Operations 4
MWA3411	Technical Drawings	MWA3451	Machine Installation
MWA3416	Layouts	MWA3460	MWA Practicum A
MWA3420	Fasteners	MWA3465	MWA Practicum B
MWA3421	Manual Machines 1	MWA3470	MWA Practicum C
MWA3426	Manual Machines 2	MWA3475	MWA Practicum D
MWA3431	Machining Operations 1	MWA3900	Apprenticeship Safety

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Networking** [Each course is worth 1 credit.] ❶—Business, Administration, Finance & Information Technology (BIT)

NET1010	Digital Technology 1	NET3010	Digital Technology 3
NET1910	NET Project A	NET3020	Digital Applications
NET2010	Digital Technology 2	NET3030	Microprocessors
NET2020	Workstation Technology & Operations	NET3040	Microprocessor Interface
NET2030	Network Structures	NET3050	Network Operating Systems
NET2040	Network Media & Devices	NET3060	Wide Area Networks
NET2050	Open System Interconnection	NET3070	Routing Fundamentals
NET2060	Network Protocols	NET3080	Internet Processes
NET2070	Local Area Networks	NET3090	Network Management
NET2080	Laptops & Peripherals	NET3100	Network Media & Devices, Security
NET2110	Telecommunications 1	NET3110	Telecommunications 2
NET2910	NET Project B	NET3910	NET Project D
NET2920	NET Project C	NET3920	NET Project E
NET2950	NET Intermediate Practicum	NET3950	NET Advanced Practicum

**Painter and Decorator Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

PDA3400	Material Selection	PDA3445	Spraying Theory
PDA3405	Surface Prep Theory 1	PDA3450	Spraying Procedures
PDA3410	Surface Prep Theory 2	PDA3455	Trade Math
PDA3415	Surface Prep 1	PDA3460	Trade Geometry
PDA3420	Surface Prep 2	PDA3465	PDA Practicum A
PDA3430	Painting Theory	PDA3470	PDA Practicum B
PDA3435	Painting Application 1	PDA3475	PDA Practicum C
PDA3440	Painting Application 2	PDA3480	PDA Practicum D
		PDA3900	Apprenticeship Safety

**Parts Technician Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

PTA3400	Material Handling	PTA3440	Communication
PTA3405	Storage & Packing	PTA3445	Customer Service
PTA3410	Shipping & Returns	PTA3450	PTA Practicum A
PTA3415	Merchandising	PTA3455	PTA Practicum B
PTA3420	Measurement & Stock	PTA3460	PTA Practicum C
PTA3425	Electrical Basics	PTA3465	PTA Practicum D
PTA3430	Suspension & Wheels	PTA3900	Apprenticeship Safety
PTA3435	Steering & Brakes		

**Pipe Trades (Gasfitter, Plumber, Sprinkler Systems Installer, and Steamfitter-Pipefitter) Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

PLA3406	Hand and Power Tools	PLA3451	Sketching and Drawing
PLA3411	Welded Pipes & Fittings	PLA3456	Interpreting Drawings
PLA3416	Plastic Pipes and Tubes	PLA3461	Pipe Trades Calculations
PLA3421	Threaded and Grooved Pipe	PLA3466	Piping Offsets and Density
PLA3426	Tubes, Tubing & Pipes	PLA3471	Pressure Atmosphere and Electricity
PLA3431	Install and Test Piping Systems	PLA3480	PLA Practicum A
PLA3436	Welding Safety and Fabrications	PLA3485	PLA Practicum B
PLA3441	Bracket and Spool Fabrication	PLA3490	PLA Practicum C
PLA3446	Brazing and Soldering	PLA3495	PLA Practicum D
		PLA3900	Apprenticeship Safety

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Power Engineering** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

**4th Class Power Engineering**

PEN3020	Preparatory Math	PEN3035	Boiler Safety Devices
PEN3021	Elementary Mechanics and Dynamics	PEN3036	Boiler Plant Operation and Management
PEN3022	Chemistry and Thermodynamics	PEN3037	Energy Plant Maintenance
PEN3023	Power Engineering Governance	PEN3038	In-Plant Water Treatment
PEN3024	Plant and Fire Safety	PEN3039	Prime Movers and Heat Engines
PEN3025	Environmental Impact	PEN3040	Auxiliary Building Systems
PEN3026	Material Science and Welding	PEN3041	Refrigeration
PEN3027	Fluid-handling Technology	PEN3042	Heating, Ventilating and Air Conditioning
PEN3028	Electrotechnology	PEN3043	Environmental and Control Systems
PEN3029	Instrumentation and Controls	PEN3044	Industrial Plant Configurations
PEN3030	Industrial Communication	PEN3605	PEN Practicum 4A
PEN3031	Boiler Designs	PEN3610	PEN Practicum 4B
PEN3032	Boiler Systems	PEN3615	PEN Practicum 4C
PEN3033	Lubrication and Bearings	PEN3620	PEN Practicum 4D
PEN3034	Pumps and Compressors		

**5th Class Power Engineering**

PEN3400	Safety & Codes	PEN3440	Refrigeration Theory
PEN3405	Applied Science	PEN3445	Heating & Cooling
PEN3410	Electricity & Welding	PEN3450	AC & Refrigeration
PEN3415	Plumbing & Piping	PEN3455	Pumps & Compression
PEN3420	Boiler Details	PEN3460	Water Treatment
PEN3425	Boiler Operation	PEN3465	PEN Practicum A
PEN3430	Heating Systems	PEN3470	PEN Practicum B
PEN3435	Human Comfort		

**Primary Resources** [Each course is worth 1 credit.] ❶—Natural Resources (NAT)

PRS1010	Overview of Alberta Geology	PRS2920	PRS Project C
PRS1020	Nonrenewable Resources	PRS2950	PRS Intermediate Practicum
PRS1050	Renewable Resources	PRS3020	Conventional Oil/Gas Recovery & Production
PRS1060	Consumer Products & Services	PRS3030	Non-conventional Hydrocarbons Recovery & Production
PRS1910	PRS Project A	PRS3040	Metals/Nonmetals Recovery & Production
PRS2020	Conventional Oil/Gas Exploration	PRS3060	Petrochemicals
PRS2030	Non-conventional Hydrocarbons Exploration	PRS3070	Industrial Materials
PRS2040	Metals/Nonmetals Exploration	PRS3910	PRS Project D
PRS2060	Refining Hydrocarbons	PRS3920	PRS Project E
PRS2070	Refining Rocks & Minerals	PRS3950	PRS Advanced Practicum
PRS2910	PRS Project B		

**Recreation Leadership** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

REC1020	Injury Management 1	REC3015	Flexibility Training
REC1030	Technical Foundations for Injury Management	REC3020	Injury Management 3
REC1040	Foundations for Training 1	REC3025	Cardiovascular Training
REC1045	Group Exercise Trends	REC3030	Speed & Agility
REC1050	Sport Psychology 1	REC3040	Training & Conditioning
REC1910	REC Project A	REC3045	Periodization
REC2010	Nutrition for Recreation Activities & Sport	REC3050	Sport Psychology 3
REC2015	Athletic Development	REC3060	Ever Active Kids Leadership
REC2020	Injury Management 2	REC3070	Fitness Instruction Leadership Principles
REC2030	Anatomy of Joints	REC3080	Resistance Training Leadership
REC2040	Foundations for Training 2	REC3085	Olympic Weightlifting
REC2045	Training for Core Muscles	REC3090	Aquatic Fitness Training Leadership
REC2050	Sport Psychology 2	REC3100	Fitness Leadership for the Older Adult
REC2060	Leadership in Recreation & Sport	REC3110	Group Exercise Leadership
REC2070	Functional Independence Training Program Leader	REC3120	Coaching 2
REC2120	Coaching 1	REC3130	Officiating
REC2910	REC Project B	REC3140	Sport & Society
REC2920	REC Project C	REC3910	REC Project D
REC2950	REC Intermediate Practicum	REC3920	REC Project E
REC3010	Human Movement	REC3950	REC Advanced Practicum

(continued)

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**CAREER AND TECHNOLOGY STUDIES★**

**Tourism Studies** [Each course is worth 1 credit.] ❶—Health, Recreation & Human Services (HRH)

TOU1010	The Tourism Sector	TOU2910	TOU Project B
TOU1030	Quality Guest Service	TOU2920	TOU Project C
TOU1040	The Food & Beverage Industry	TOU2950	TOU Intermediate Practicum
TOU1050	The Accommodation Industry	TOU3000	Tourism Essentials
TOU1060	The Travel Industry	TOU3010	Food & Beverage Functions
TOU1070	The Attractions Industry	TOU3020	Food & Beverage Manager
TOU1120	Adventure & Ecotourism 1	TOU3040	Accommodations Operations
TOU1910	TOU Project A	TOU3060	Destination Management
TOU2010	Event Management	TOU3080	Air Transportation
TOU2040	Food & Beverage Service	TOU3090	Surface Transportation
TOU2050	Meetings & Conferences	TOU3120	Adventure & Ecotourism 3
TOU2060	Travel Destinations 1	TOU3910	TOU Project D
TOU2070	Travel Destinations 2	TOU3920	TOU Project E
TOU2080	Travel Planning	TOU3950	TOU Advanced Practicum
TOU2120	Adventure & Ecotourism 2		

**Welder Apprenticeship** [Each course is worth 1 credit.] ❶—Trades, Manufacturing & Transportation (TMT)

WDA3401	Tools & Equipment	WDA3427	Mild Steel Pipe Welds
WDA3403	Oxyfuel & Plasma Arc	WDA3429	Aluminum & Saw
WDA3406	Electricity & Metals	WDA3432	Welding Math 1
WDA3407	Symbols & Drawings	WDA3437	Welding Math 2
WDA3408	Weld Faults	WDA3445	WDA Practicum A
WDA3411	Wire-feed Welding	WDA3450	WDA Practicum B
WDA3413	Gases & Maintenance	WDA3455	WDA Practicum C
WDA3415	GMAW on Mild Steel	WDA3460	WDA Practicum D
WDA3420	FCAW & MCAW on Mild Steel	WDA3900	Apprenticeship Safety
WDA3423	Mild Steel Welds		

**Wildlife** [Each course is worth 1 credit.] ❶—Natural Resources (NAT)

WLD1010	Introduction to Wildlife	WLD2090	Issues in Wildlife
WLD1020	Wildlife Diversity	WLD2100	Outdoor Cooking Practice
WLD1050	People, Culture & Wildlife Heritage	WLD2130	Outdoor Excursion
WLD1060	Wilderness Navigation	WLD2910	WLD Project B
WLD1070	Hunting & Game Management Theory	WLD2920	WLD Project C
WLD1075	Bowhunting Education	WLD2950	WLD Intermediate Practicum
WLD1080	Angling & Fish Management Theory	WLD3020	Wildlife Protection & Stewardship
WLD1090	Boating Safety	WLD3040	Wildlife Management Research Study
WLD1100	Outdoor Cooking Theory	WLD3050	Wildlife Management Principles
WLD1130	Outdoor Survival Skills	WLD3060	Wildlife Management Applications
WLD1910	WLD Project A	WLD3090	Analyzing Issues in Wildlife
WLD2020	Diversity of Wildlife Values	WLD3130	Outdoor Leadership
WLD2040	Wildlife Spaces & Species	WLD3140	Introduction to Guiding
WLD2060	Wildlife & Society	WLD3910	WLD Project D
WLD2070	Hunting & Game Management Practice	WLD3920	WLD Project E
WLD2080	Angling & Fish Management Practice	WLD3950	WLD Advanced Practicum

(continued)

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**DUAL ENROLLED DUAL CREDIT**

School authorities have the flexibility to partner with eligible post-secondary institutions (PSIs) to offer dual enrolled dual credit courses to address particular student and/or community needs. Senior high school dual enrolled dual credit courses require a formal partnership between the school authority and the PSI. A school authority must submit a *Dual Credit Course Code Application* to Alberta Education to be authorized by the ministry prior to offering the dual credit dual enrolled course. See the *Guide to Education* for requirements for offering a dual enrolled dual credit course.

Each course is worth 5 credits unless otherwise indicated by an asterisk (\*). Course credits are then shown in parentheses.

PSI3000	Introduction to Business	PSI3050	Veterinary Equipment & Instrumentation
PSI3001	Introduction to Psychology	PSI3051	Veterinary Patient Preparation and Husbandry
PSI3002	Introduction to Cinema Studies	PSI3052	Child & Adolescent Development
PSI3003	Introduction to Accounting 1	PSI3053	Effectively Managing Student Behavior
PSI3004	Introduction to Accounting 2	PSI3054	Interpersonal Communications for the Helping Profession
PSI3005	Introduction to Anatomy & Physiology	PSI3055	Introduction to Educational Computer Applications
PSI3011	Design Fundamentals	PSI3056	Introduction to English & Literature
PSI3012	3D Object Design	PSI3057	Introduction to Exceptionalities
PSI3013	Medical Terminology	PSI3058	Language Development & Instructional Strategies
PSI3014	Introduction to Business Management	PSI3059	Leadership in the Helping Professions
PSI3015	Pharmacy Assistant 1	PSI3060	Math Development & Instructional Strategies
PSI3016	Pharmacy Assistant 2	PSI3061	Working with Children with Exceptionalities
PSI3017	Pharmacy Assistant 3	PSI3062	Educational Assistant Practice 1* (3 credits)
PSI3018	Pharmacy Assistant 4	PSI3063	Educational Assistant Practice 2
PSI3019	Pharmacy Assistant Practice* (6 credits)	PSI3064	Organisms in Their Environment
PSI3020	Foundations of Human Behavior	PSI3065	Introduction to Statistical Methods
PSI3021	Aircraft Standard Practices	PSI3066	Introduction to Communications
PSI3022	Marketing for Hospitality and Tourism	PSI3067	Indigenous Studies 1
PSI3023	Global and Sustainable Tourism	PSI3068	Introduction to Cultural Anthropology
PSI3024	Introduction to Aviation Navigation	PSI3069	Interactive Technologies
PSI3025	Introduction to Aviation Meteorology	PSI3070	The Profession of Teaching
PSI3026	Basic Math for Industry	PSI3071	Introductory Financial Accounting
PSI3027	Industrial Safety 1	PSI3072	Introduction to Esthetics* (3 credits)
PSI3028	Survey Theory 1	PSI3073	Soil Science
PSI3029	Survey Field Training 1	PSI3074	Health, Nutrition and Safety
PSI3030	Introduction to Technical Drawing and CAD	PSI3075	Learning through Play
PSI3031	Research and Writing in the Context of Indigenous and Settler Relations	PSI3076	Environmental Sustainability
PSI3032	Introductory Cree 1	PSI3077	Introduction to Academic Writing
PSI3033	Basic Psychological Processes	PSI3078	Art History
PSI3034	Social and Individual Behavior	PSI3079	Digital Drafting Fundamentals
PSI3035	Elementary Calculus One	PSI3080	Mapping Fundamentals
PSI3036	Introductory Calculus	PSI3081	Concrete and Soil Basics
PSI3037	Critical Reading and Writing	PSI3082	Introductory Composition
PSI3038	Introduction to Sociology	PSI3083	Environment & Industry
PSI3039	Introduction to Computing and Information Systems	PSI3084	Oil & Gas Production Operations A
PSI3040	Introduction to Information Systems and Computer Applications	PSI3085	Oil & Gas Equipment – Operations Practical* (1 credit)
PSI3041	Introduction to Computer Programming (Java)	PSI3086	Oil & Gas Equipment – Piggings Practical* (1 credit)
PSI3042	Social Aspects of Games, Leisure and Entertainment	PSI3087	Oil & Gas Production Operations B
PSI3043	Introduction to Government and Politics	PSI3088	Oil & Gas Equipment – Separator Practical* (1 credit)
PSI3044	Electromagnetic Theory	PSI3089	Oil & Gas Production Operations C
PSI3045	Calculus 1	PSI3090	Oil & Gas Equipment – Dehydration Practical* (1 credit)
PSI3046	Psychology for Everyday Life	PSI3091	Oil & Gas Production Operations D
PSI3047	Introduction to the Veterinary Profession	PSI3092	Map Interpretation* (3 credits)
PSI3048	Small Animal Restraint & Handling	PSI3093	Introduction to Indigenous Studies
PSI3049	Principles of Veterinary Clinical Procedures	PSI3094	Foundations of Design
		PSI3095	Personal Health & Wellness
		PSI3096	Introduction to Medical Terminology 1
		PSI3097	Introduction to Medical Terminology 2
		PSI3098	Introduction to Management
		PSI3099	Business Communications
		PSI3100	Introduction to the Criminal Justice System

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**DUAL ENROLLED DUAL CREDIT**

PSI3101	Introduction to the Bible	PSI3174	Accommodation Management
PSI3102	Activity: Essence and Experience	PSI3175	Pathophysiology
PSI3103	Business Technology	PSI3176	Introduction to Social Work
PSI3104	Thermodynamics, Electricity and Magnetism	PSI3177	Introduction to Pharmacology
PSI3105	Human Relations	PSI3178	Introduction to Addictions Counselling
PSI3106	Fostering Positive Behavior	PSI3179	Introduction to Addictions Studies
PSI3107	Interpersonal Relations 1	PSI3180	Higher Arithmetic
PSI3108	The Role of the Educational Assistant	PSI3181	Exploration in Drama and Theatre
PSI3109	Human Nutrition	PSI3182	Office Computer Applications
PSI3110	Nutrition and Disease Prevention	PSI3183	Computer Applications for Veterinary Office
PSI3111	Communication and Presentation Skills	PSI3184	Computer Applications for Health-Care Professionals
PSI3112	Life-cycle Nutrition	PSI3185	Administrative Health-Care Procedures
PSI3113	Electrical Diagrams & Auto CAD	PSI3186	Veterinary Terminology and Animal Systems
PSI3114	Nutrition Trends and Controversies	PSI3187	Veterinary Administrative Procedures
PSI3115	Experiential Learning Prep	PSI3188	Infection Prevention and Control
PSI3116	Nutrition Adaptations	PSI3189	Organizational Behaviour
PSI3117	Health Promotion in Nutrition	PSI3190	Medical Terminology/Anatomy & Physiology
PSI3118	Health Coaching	PSI3191	English for Allied Health* (3 credits)
PSI3119	Adult Education Principles & Design	PSI3192	Hospital Administration* (3 credits)
PSI3120	Sport and Fitness Nutrition	PSI3193	Patient Records/Transcribing
PSI3121	Experiential Learning Project	PSI3194	Medical Order Entry
PSI3122	Infant and Toddler Care	PSI3195	Unit Clerk Practicum
PSI3123	Managing & Support Children’s Behavior	PSI3196	Genetically Engineered Machines
PSI3124	Nutrition and Safety	PSI3197	Computer Apps for the Dental Professional* (3 credits)
PSI3125	Introduction to Early Learning & Childcare	PSI3198	Dental Terminology
PSI3126	Early Learning & Childcare Practice 1	PSI3199	Dental Office Procedures
PSI3127	Early Learning & Childcare Practice 2	PSI3200	Citizenship Without Borders
PSI3128	Learning with Play	PSI3201	Literature in Society
PSI3129	Introduction to Information Technology	PSI3202	Introduction to Forensic Science
PSI3130	Introductory University Chemistry	PSI3203	Introduction to Cooking
PSI3131	Introduction to Sustainable Business	PSI3204	Pastry Fundamentals
PSI3132	Choral Ensemble	PSI3205	Dance Fundamentals
PSI3133	Introduction to Aboriginal Issues	PSI3206	The Organization and Diversity of Life
PSI3134	Basic Psychological Processes	PSI3207	Introduction to Microeconomics
PSI3135	Individual and Social Behavior	PSI3208	Introduction to Graphic Representation
PSI3136	Pre-Confederation Canadian History	PSI3209	Introduction to Human Health
PSI3137	Introduction to the Study of Society	PSI3210	Sound and Sense - Listening to Music
PSI3138	Anatomy and Physiology 2	PSI3211	Syllabus/Cree
PSI3139	Internet of Things	PSI3212	Managing Landscapes
PSI3140	Programming Fundamentals	PSI3213	Producing Horticulture Crops
PSI3141	Outdoor Leadership	PSI3214	American Sign Language Level 1
PSI3142	Outdoor Programming	PSI3215	Global Issues
PSI3143	Electrical and Controls I	PSI3216	Introduction to Canadian Law
PSI3144	Biology Field Ecology	PSI3217	Meteorology
PSI3145	Boiler Plant Workshop Practices	PSI3218	Diversity and Criminal Justice in Canada
PSI3146	Fundamentals of Petroleum Operations	PSI3219	Private Pilot Ground School
PSI3147	Approaches to Literature	PSI3220	Basic Energy Principles
PSI3149	Liberal Education	PSI3221	The Helping Process
PSI3148	Introduction to Entrepreneurship	PSI3222	Tech Tools for Teaching & Learning
PSI3150	Canadian Politics: Institutions and Issues	PSI3223	Admin Professionals Experience* (6 credits)
PSI3151	Supporting Diverse Learners	PSI3224	Veterinary Practice – Team Connections
PSI3152	Child Development	PSI3225	Agriculture Electronics & Control Systems
PSI3153	Materials and Processes for NDT	PSI3226	Solving Agriculture Technical Problems
PSI3154	Ultrasonics Level 1	PSI3227	Applied Ecology
PSI3155	Magnetic Particles Levels 1 & 2	PSI3228	Science of Health and Wellness
PSI3156	Liquid Penetrate Levels 1 & 2	PSI3229	Psychiatric Nursing
PSI3157	Visual Inspection Level LL	PSI3230	Collaborative Team Practice
PSI3158	Certified Exposure Device Operator	PSI3231	Meat Cutting
PSI3160	Knowledge and Liberal Education	PSI3232	Value Added Processing
PSI3161	Fundamentals of Business	PSI3233	Food & Safety Sanitation
PSI3162	Policing in Canada	PSI3234	Meat Industry Communication
PSI3163	Law and the Administration of Justice	PSI3235	Livestock Slaughter
PSI3164	Introduction to Marketing	PSI3236	Meat Merchandising & Marketing
PSI3165	Human Growth and Development Across the Lifespan	PSI3237	Sociology and Crime
PSI3166	Introduction to Health Care Fundamentals	PSI3238	The Canadian Legal System
PSI3167	Introduction to Research and Study Skills	PSI3239	Education Issues & Social Change
PSI3170	Role Concepts in Health Care	PSI3240	Introduction to Human Development
PSI3171	Interpersonal Relationships and Communication Skills	PSI3241	Commodity Marketing
PSI3172	Entrepreneurship 1	PSI3242	Animal Science
PSI3173	Leisure Sporting Events and Recreation	PSI3243	Physical Geology

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**DUAL ENROLLED DUAL CREDIT**

PSI3244	Indigenous Law
PSI3245	Treaties
PSI3246	Network Protocols and Security
PSI3247	IT Military and Strategic Studies
PSI3248	Secure Programming Essentials
PSI3249	Introduction to Sports Management
PSI3250	Training for Performance
PSI3251	Intro to Learning and Childcare
PSI3252	Early Childcare: Literacy
PSI3253	Personal Computing Employment Practicum
PSI3254	Personal Computing Service Fundamentals
PSI3255	Cybersecurity Fundamentals
PSI3256	Desktop & Mobile Operating Systems
PSI3257	Network Essentials
PSI3258	Web, Mail & Data Essentials
PSI3259	Field Service Essentials
PSI3260	Networking Tools and Technology
PSI3261	Server Technologies
PSI3262	Cloud Fundamentals
PSI3263	Personal Computing Business Communications
PSI3264	Multidisciplinary Computer Science I
PSI3265	Photography
PSI3266	Introduction to Computers in Business
PSI3267	Introduction to Computers
PSI3268	Computer Science Coding and Robotics
PSI3269	Introduction to Digital Media
PSI3270	Media History & Contemporary Issues
PSI3271	Digital Audio Production
PSI3272	Writing for Digital Audio
PSI3273	Human Development
PSI3274	Graphic Communications
PSI3275	Interior Design Technology
PSI3276	Introduction to Design Software and Photography
PSI3277	Marketing Fundamentals: Media



# Registered Apprenticeship Program (RAP) Course Codes and Course Names

The Registered Apprenticeship Program (RAP) enables students to spend part of their time in school and part in industry as registered apprentices in a designated trade.

Students enrolled in RAP are counted as full-time high school students and as registered apprentices.

To enter the program, students must be in senior high school and meet the grade entrance requirement for the selected trade or pass the trade entrance examination. Students must be registered with both Alberta Education (High School Curriculum Sector, Careers, Arts & Wellness, Languages and LDCs) and Alberta Advanced Education (Apprenticeship and Industry Training).

Complete details about becoming an apprentice can be found at [www.tradesecrets.gov.ab.ca](http://www.tradesecrets.gov.ab.ca).

RAP courses are classified as locally developed courses. School authorities intending to offer this program should refer to the [Off-campus Education Handbook](#) for further information.

Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP)</b>		
RAP4164 Agricultural Equipment Technician 15 .....(5)	RAP5164 Agricultural Equipment Technician 25A .....(5) RAP5165 Agricultural Equipment Technician 25B .....(5) RAP5166 Agricultural Equipment Technician 25C .....(5)	RAP6164 Agricultural Equipment Technician 35A .....(5) RAP6165 Agricultural Equipment Technician 35B .....(5) RAP6166 Agricultural Equipment Technician 35C .....(5) RAP6167 Agricultural Equipment Technician 35D .....(5)
RAP1659 Appliance Service Technician 15 .....(5)	RAP2659 Appliance Service Technician 25A .....(5) RAP2660 Appliance Service Technician 25B .....(5) RAP2661 Appliance Service Technician 25C .....(5)	RAP3659 Appliance Service Technician 35A .....(5) RAP3660 Appliance Service Technician 35B .....(5) RAP3661 Appliance Service Technician 35C .....(5) RAP3662 Appliance Service Technician 35D .....(5)
RAP1992 Auto Body Technician 15 .....(5)	RAP2992 Auto Body Technician 25A .....(5) RAP2993 Auto Body Technician 25B .....(5) RAP2994 Auto Body Technician 25C .....(5)	RAP3992 Auto Body Technician 35A .....(5) RAP3993 Auto Body Technician 35B .....(5) RAP3994 Auto Body Technician 35C .....(5) RAP3995 Auto Body Technician 35D .....(5)
RAP1762 Automotive Service Technician 15 .....(5)	RAP2762 Automotive Service Technician 25A .....(5) RAP2763 Automotive Service Technician 25B .....(5) RAP2764 Automotive Service Technician 25C .....(5)	RAP3762 Automotive Service Technician 35A .....(5) RAP3763 Automotive Service Technician 35B .....(5) RAP3764 Automotive Service Technician 35C .....(5) RAP3765 Automotive Service Technician 35D .....(5)

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Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP) (continued)</b>		
RAP4100 Baker 15 .....(5)	RAP5100 Baker 25A .....(5) RAP5101 Baker 25B .....(5) RAP5102 Baker 25C .....(5)	RAP6100 Baker 35A .....(5) RAP6101 Baker 35B .....(5) RAP6102 Baker 35C .....(5) RAP6103 Baker 35D .....(5)
RAP4168 Boilermaker 15 .....(5)	RAP5168 Boilermaker 25A .....(5) RAP5169 Boilermaker 25B .....(5) RAP5170 Boilermaker 25C .....(5)	RAP6168 Boilermaker 35A .....(5) RAP6169 Boilermaker 35B .....(5) RAP6170 Boilermaker 35C .....(5) RAP6171 Boilermaker 35D .....(5)
RAP4172 Bricklayer 15 .....(5)	RAP5172 Bricklayer 25A .....(5) RAP5173 Bricklayer 25B .....(5) RAP5174 Bricklayer 25C .....(5)	RAP6172 Bricklayer 35A .....(5) RAP6173 Bricklayer 35B .....(5) RAP6174 Bricklayer 35C .....(5) RAP6175 Bricklayer 35D .....(5)
RAP4104 Cabinetmaker 15 .....(5)	RAP5104 Cabinetmaker 25A .....(5) RAP5105 Cabinetmaker 25B .....(5) RAP5106 Cabinetmaker 25C .....(5)	RAP6104 Cabinetmaker 35A .....(5) RAP6105 Cabinetmaker 35B .....(5) RAP6106 Cabinetmaker 35C .....(5) RAP6107 Cabinetmaker 35D .....(5)
RAP4108 Carpenter 15 .....(5)	RAP5108 Carpenter 25A .....(5) RAP5109 Carpenter 25B .....(5) RAP5110 Carpenter 25C .....(5)	RAP6108 Carpenter 35A .....(5) RAP6109 Carpenter 35B .....(5) RAP6110 Carpenter 35C .....(5) RAP6111 Carpenter 35D .....(5)
RAP4180 Communication Technician 15 .....(5)	RAP5180 Communication Technician 25A .....(5) RAP5181 Communication Technician 25B .....(5) RAP5182 Communication Technician 25C .....(5)	RAP6180 Communication Technician 35A .....(5) RAP6181 Communication Technician 35B .....(5) RAP6182 Communication Technician 35C .....(5) RAP6183 Communication Technician 35D .....(5)
RAP4176 Concrete Finisher 15 .....(5)	RAP5176 Concrete Finisher 25A .....(5) RAP5177 Concrete Finisher 25B .....(5) RAP5178 Concrete Finisher 25C .....(5)	RAP6176 Concrete Finisher 35A .....(5) RAP6177 Concrete Finisher 35B .....(5) RAP6178 Concrete Finisher 35C .....(5) RAP6179 Concrete Finisher 35D .....(5)
RAP4112 Cook 15 .....(5)	RAP5112 Cook 25A .....(5) RAP5113 Cook 25B .....(5) RAP5114 Cook 25C .....(5)	RAP6112 Cook 35A .....(5) RAP6113 Cook 35B .....(5) RAP6114 Cook 35C .....(5) RAP6115 Cook 35D .....(5)
RAP4184 Crane and Hoisting Equipment Operator 15 .....(5)	RAP5184 Crane and Hoisting Equipment Operator 25A .....(5) RAP5185 Crane and Hoisting Equipment Operator 25B .....(5) RAP5186 Crane and Hoisting Equipment Operator 25C .....(5)	RAP6184 Crane and Hoisting Equipment Operator 35A .....(5) RAP6185 Crane and Hoisting Equipment Operator 35B .....(5) RAP6186 Crane and Hoisting Equipment Operator 35C .....(5) RAP6187 Crane and Hoisting Equipment Operator 35D .....(5)
RAP4116 Electric Motor Systems Technician 15 .....(5)	RAP5116 Electric Motor Systems Technician 25A .....(5) RAP5117 Electric Motor Systems Technician 25B .....(5) RAP5118 Electric Motor Systems Technician 25C .....(5)	RAP6116 Electric Motor Systems Technician 35A .....(5) RAP6117 Electric Motor Systems Technician 35B .....(5) RAP6118 Electric Motor Systems Technician 35C .....(5) RAP6119 Electric Motor Systems Technician 35D .....(5)
RAP1758 Electrician 15 .....(5)	RAP2758 Electrician 25A .....(5) RAP2759 Electrician 25B .....(5) RAP2760 Electrician 25C .....(5)	RAP3758 Electrician 35A .....(5) RAP3759 Electrician 35B .....(5) RAP3760 Electrician 35C .....(5) RAP3761 Electrician 35D .....(5)

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Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP) (continued)</b>		
RAP4256 Elevator Constructor 15.....(5)	RAP5256 Elevator Constructor 25A.....(5) RAP5257 Elevator Constructor 25B.....(5) RAP5258 Elevator Constructor 25C.....(5)	RAP6256 Elevator Constructor 35A.....(5) RAP6257 Elevator Constructor 35B.....(5) RAP6258 Elevator Constructor 35C.....(5) RAP6259 Elevator Constructor 35D.....(5)
RAP4120 Floorcovering Installer 15.....(5)	RAP5120 Floorcovering Installer 25A.....(5) RAP5121 Floorcovering Installer 25B.....(5) RAP5122 Floorcovering Installer 25C.....(5)	RAP6120 Floorcovering Installer 35A.....(5) RAP6121 Floorcovering Installer 35B.....(5) RAP6122 Floorcovering Installer 35C.....(5) RAP6123 Floorcovering Installer 35D.....(5)
RAP4124 Gasfitter 15 ❶.....(5)	RAP5124 Gasfitter 25A ❶.....(5) RAP5125 Gasfitter 25B ❶.....(5) RAP5126 Gasfitter 25C ❶.....(5)	RAP6124 Gasfitter 35A ❶.....(5) RAP6125 Gasfitter 35B ❶.....(5) RAP6126 Gasfitter 35C ❶.....(5) RAP6127 Gasfitter 35D ❶.....(5)
RAP4128 Glazier 15.....(5)	RAP5128 Glazier 25A.....(5) RAP5129 Glazier 25B.....(5) RAP5130 Glazier 25C.....(5)	RAP6128 Glazier 35A.....(5) RAP6129 Glazier 35B.....(5) RAP6130 Glazier 35C.....(5) RAP6131 Glazier 35D.....(5)
RAP1853 Hairstylist 15.....(5)	RAP2853 Hairstylist 25A.....(5) RAP2854 Hairstylist 25B.....(5) RAP2855 Hairstylist 25C.....(5)	RAP3853 Hairstylist 35A.....(5) RAP3854 Hairstylist 35B.....(5) RAP3855 Hairstylist 35C.....(5) RAP3856 Hairstylist 35D.....(5)
RAP1988 Heavy Equipment Technician 15.....(5)	RAP2988 Heavy Equipment Technician 25A.....(5) RAP2989 Heavy Equipment Technician 25B.....(5) RAP2990 Heavy Equipment Technician 25C.....(5)	RAP3988 Heavy Equipment Technician 35A.....(5) RAP3989 Heavy Equipment Technician 35B.....(5) RAP3990 Heavy Equipment Technician 35C.....(5) RAP3991 Heavy Equipment Technician 35D.....(5)
RAP4144 Industrial Mechanic (Millwright) 15 ❷.....(5)	RAP5144 Industrial Mechanic (Millwright) 25A ❷.....(5) RAP5145 Industrial Mechanic (Millwright) 25B ❷.....(5) RAP5146 Industrial Mechanic (Millwright) 25C ❷.....(5)	RAP6144 Industrial Mechanic (Millwright) 35A ❷.....(5) RAP6145 Industrial Mechanic (Millwright) 35B ❷.....(5) RAP6146 Industrial Mechanic (Millwright) 35C ❷.....(5) RAP6147 Industrial Mechanic (Millwright) 35D ❷.....(5)
RAP4132 Instrumentation and Control Technician 15 ❸.....(5)	RAP5132 Instrumentation and Control Technician 25A ❸.....(5) RAP5133 Instrumentation and Control Technician 25B ❸.....(5) RAP5134 Instrumentation and Control Technician 25C ❸.....(5)	RAP6132 Instrumentation and Control Technician 35A ❸.....(5) RAP6133 Instrumentation and Control Technician 35B ❸.....(5) RAP6134 Instrumentation and Control Technician 35C ❸.....(5) RAP6135 Instrumentation and Control Technician 35D ❸.....(5)
RAP4136 Insulator (Heat and Frost) 15 ❹.....(5)	RAP5136 Insulator (Heat and Frost) 25A ❹.....(5) RAP5137 Insulator (Heat and Frost) 25B ❹.....(5) RAP5138 Insulator (Heat and Frost) 25C ❹.....(5)	RAP6136 Insulator (Heat and Frost) 35A ❹.....(5) RAP6137 Insulator (Heat and Frost) 35B ❹.....(5) RAP6138 Insulator (Heat and Frost) 35C ❹.....(5) RAP6139 Insulator (Heat and Frost) 35D ❹.....(5)

(continued)

❶ Formerly Gasfitter–First Class.

❷ Formerly Millwright.

❸ Formerly Instrument and Control Technician.

❹ Formerly Insulator.

Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP) (continued)</b>		
RAP4188 Ironworker 15.....(5)	RAP5188 Ironworker 25A.....(5) RAP5189 Ironworker 25B.....(5) RAP5190 Ironworker 25C.....(5)	RAP6188 Ironworker 35A.....(5) RAP6189 Ironworker 35B.....(5) RAP6190 Ironworker 35C.....(5) RAP6191 Ironworker 35D.....(5)
RAP4192 Landscape Horticulturist 15 ❶.....(5)	RAP5192 Landscape Horticulturist 25A ❶.....(5) RAP5193 Landscape Horticulturist 25B ❶.....(5) RAP5194 Landscape Horticulturist 25C ❶.....(5)	RAP6192 Landscape Horticulturist 35A ❶.....(5) RAP6193 Landscape Horticulturist 35B ❶.....(5) RAP6194 Landscape Horticulturist 35C ❶.....(5) RAP6195 Landscape Horticulturist 35D ❶.....(5)
RAP4196 Lather-Interior Systems Mechanic 15.....(5)	RAP5196 Lather-Interior Systems Mechanic 25A.....(5) RAP5197 Lather-Interior Systems Mechanic 25B.....(5) RAP5198 Lather-Interior Systems Mechanic 25C.....(5)	RAP6196 Lather-Interior Systems Mechanic 35A.....(5) RAP6197 Lather-Interior Systems Mechanic 35B.....(5) RAP6198 Lather-Interior Systems Mechanic 35C.....(5) RAP6199 Lather-Interior Systems Mechanic 35D.....(5)
RAP4260 Locksmith 15.....(5)	RAP5260 Locksmith 25A.....(5) RAP5261 Locksmith 25B.....(5) RAP5262 Locksmith 25C.....(5)	RAP6260 Locksmith 35A.....(5) RAP6261 Locksmith 35B.....(5) RAP6262 Locksmith 35C.....(5) RAP6263 Locksmith 35D.....(5)
RAP4140 Machinist 15.....(5)	RAP5140 Machinist 25A.....(5) RAP5141 Machinist 25B.....(5) RAP5142 Machinist 25C.....(5)	RAP6140 Machinist 35A.....(5) RAP6141 Machinist 35B.....(5) RAP6142 Machinist 35C.....(5) RAP6143 Machinist 35D.....(5)
RAP4240 Metal Fabricator (Fitter) 15 ❷.....(5)	RAP5240 Metal Fabricator (Fitter) 25A ❷.....(5) RAP5241 Metal Fabricator (Fitter) 25B ❷.....(5) RAP5242 Metal Fabricator (Fitter) 25C ❷.....(5)	RAP6240 Metal Fabricator (Fitter) 35A ❷.....(5) RAP6241 Metal Fabricator (Fitter) 35B ❷.....(5) RAP6242 Metal Fabricator (Fitter) 35C ❷.....(5) RAP6243 Metal Fabricator (Fitter) 35D ❷.....(5)
RAP1646 Motorcycle Mechanic 15.....(5)	RAP2646 Motorcycle Mechanic 25A.....(5) RAP2647 Motorcycle Mechanic 25B.....(5) RAP2648 Motorcycle Mechanic 25C.....(5)	RAP3646 Motorcycle Mechanic 35A.....(5) RAP3647 Motorcycle Mechanic 35B.....(5) RAP3648 Motorcycle Mechanic 35C.....(5) RAP3649 Motorcycle Mechanic 35D.....(5)
RAP4320 Natural Gas Compression Technician 15.....(5)	RAP5320 Natural Gas Compression Technician 25A.....(5) RAP5321 Natural Gas Compression Technician 25B.....(5) RAP5322 Natural Gas Compression Technician 25C.....(5)	RAP6320 Natural Gas Compression Technician 35A.....(5) RAP6321 Natural Gas Compression Technician 35B.....(5) RAP6322 Natural Gas Compression Technician 35C.....(5) RAP6323 Natural Gas Compression Technician 35D.....(5)

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- ❶ Formerly Landscape Gardener.
- ❷ Formerly Structural Steel and Plate Fitter.

Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP) (continued)</b>		
RAP4284 Outdoor Power Equipment Technician – Power Equipment 15 ❶ .....(5)	RAP5284 Outdoor Power Equipment Technician – Power Equipment 25A ❶ .....(5) RAP5285 Outdoor Power Equipment Technician – Power Equipment 25B ❶ .....(5) RAP5286 Outdoor Power Equipment Technician – Power Equipment 25C ❶ .....(5)	RAP6284 Outdoor Power Equipment Technician – Power Equipment 35A ❶ .....(5) RAP6285 Outdoor Power Equipment Technician – Power Equipment 35B ❶ .....(5) RAP6286 Outdoor Power Equipment Technician – Power Equipment 35C ❶ .....(5) RAP6287 Outdoor Power Equipment Technician – Power Equipment 35D ❶ .....(5)
RAP4148 Painter and Decorator 15 .....(5)	RAP5148 Painter and Decorator 25A .....(5) RAP5149 Painter and Decorator 25B .....(5) RAP5150 Painter and Decorator 25C .....(5)	RAP6148 Painter and Decorator 35A .....(5) RAP6149 Painter and Decorator 35B .....(5) RAP6150 Painter and Decorator 35C .....(5) RAP6151 Painter and Decorator 35D .....(5)
RAP1655 Parts Technician 15 .....(5)	RAP2655 Parts Technician 25A .....(5) RAP2656 Parts Technician 25B .....(5) RAP2657 Parts Technician 25C .....(5)	RAP3655 Parts Technician 35A .....(5) RAP3656 Parts Technician 35B .....(5) RAP3657 Parts Technician 35C .....(5) RAP3658 Parts Technician 35D .....(5)
RAP4152 Plumber 15 .....(5)	RAP5152 Plumber 25A .....(5) RAP5153 Plumber 25B .....(5) RAP5154 Plumber 25C .....(5)	RAP6152 Plumber 35A .....(5) RAP6153 Plumber 35B .....(5) RAP6154 Plumber 35C .....(5) RAP6155 Plumber 35D .....(5)
RAP4204 Powerline Technician 15 ❷ .....(5)	RAP5204 Powerline Technician 25A ❷ .....(5) RAP5205 Powerline Technician 25B ❷ .....(5) RAP5206 Powerline Technician 25C ❷ .....(5)	RAP6204 Powerline Technician 35A ❷ .....(5) RAP6205 Powerline Technician 35B ❷ .....(5) RAP6206 Powerline Technician 35C ❷ .....(5) RAP6207 Powerline Technician 35D ❷ .....(5)
RAP4208 Power System Electrician 15 .....(5)	RAP5208 Power System Electrician 25A .....(5) RAP5209 Power System Electrician 25B .....(5) RAP5210 Power System Electrician 25C .....(5)	RAP6208 Power System Electrician 35A .....(5) RAP6209 Power System Electrician 35B .....(5) RAP6210 Power System Electrician 35C .....(5) RAP6211 Power System Electrician 35D .....(5)
RAP4280 Recreation Vehicle Service Technician 15 .....(5)	RAP5280 Recreation Vehicle Service Technician 25A .....(5) RAP5281 Recreation Vehicle Service Technician 25B .....(5) RAP5282 Recreation Vehicle Service Technician 25C .....(5)	RAP6280 Recreation Vehicle Service Technician 35A .....(5) RAP6281 Recreation Vehicle Service Technician 35B .....(5) RAP6282 Recreation Vehicle Service Technician 35C .....(5) RAP6283 Recreation Vehicle Service Technician 35D .....(5)

(continued)

❶ Formerly Outdoor Power Equipment Technician.  
❷ Formerly Power Lineman.

Grade 10	Grade 11	Grade 12
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP) (continued)</b>		
RAP4156 Refrigeration and Air Conditioning Mechanic 15 .....(5)	RAP5156 Refrigeration and Air Conditioning Mechanic 25A .....(5) RAP5157 Refrigeration and Air Conditioning Mechanic 25B.....(5) RAP5158 Refrigeration and Air Conditioning Mechanic 25C.....(5)	RAP6156 Refrigeration and Air Conditioning Mechanic 35A .....(5) RAP6157 Refrigeration and Air Conditioning Mechanic 35B.....(5) RAP6158 Refrigeration and Air Conditioning Mechanic 35C.....(5) RAP6159 Refrigeration and Air Conditioning Mechanic 35D .....(5)
RAP4300 Rig Technician 15.....(5)	RAP5300 Rig Technician 25A.....(5) RAP5301 Rig Technician 25B.....(5) RAP5302 Rig Technician 25C.....(5)	RAP6300 Rig Technician 35A .....(5) RAP6301 Rig Technician 35B.....(5) RAP6302 Rig Technician 35C.....(5) RAP6303 Rig Technician 35D .....(5)
RAP4224 Roofer 15.....(5)	RAP5224 Roofer 25A.....(5) RAP5225 Roofer 25B.....(5) RAP5226 Roofer 25C.....(5)	RAP6224 Roofer 35A.....(5) RAP6225 Roofer 35B.....(5) RAP6226 Roofer 35C.....(5) RAP6227 Roofer 35D.....(5)
RAP4232 Sheet Metal Worker 15.....(5)	RAP5232 Sheet Metal Worker 25A.....(5) RAP5233 Sheet Metal Worker 25B.....(5) RAP5234 Sheet Metal Worker 25C.....(5)	RAP6232 Sheet Metal Worker 35A.....(5) RAP6233 Sheet Metal Worker 35B.....(5) RAP6234 Sheet Metal Worker 35C.....(5) RAP6235 Sheet Metal Worker 35D.....(5)
RAP4236 Sprinkler Systems Installer 15.....(5)	RAP5236 Sprinkler Systems Installer 25A.....(5) RAP5237 Sprinkler Systems Installer 25B.....(5) RAP5238 Sprinkler Systems Installer 25C.....(5)	RAP6236 Sprinkler Systems Installer 35A.....(5) RAP6237 Sprinkler Systems Installer 35B.....(5) RAP6238 Sprinkler Systems Installer 35C.....(5) RAP6239 Sprinkler Systems Installer 35D.....(5)
RAP4160 Steamfitter–Pipefitter 15.....(5)	RAP5160 Steamfitter–Pipefitter 25A.....(5) RAP5161 Steamfitter–Pipefitter 25B.....(5) RAP5162 Steamfitter–Pipefitter 25C.....(5)	RAP6160 Steamfitter–Pipefitter 35A .....(5) RAP6161 Steamfitter–Pipefitter 35B.....(5) RAP6162 Steamfitter–Pipefitter 35C.....(5) RAP6163 Steamfitter–Pipefitter 35D .....(5)
RAP4244 Tilessetter 15.....(5)	RAP5244 Tilessetter 25A.....(5) RAP5245 Tilessetter 25B.....(5) RAP5246 Tilessetter 25C.....(5)	RAP6244 Tilessetter 35A.....(5) RAP6245 Tilessetter 35B.....(5) RAP6246 Tilessetter 35C.....(5) RAP6247 Tilessetter 35D.....(5)
RAP4252 Transport Refrigeration Technician 15 .....(5)	RAP5252 Transport Refrigeration Technician 25A .....(5) RAP5253 Transport Refrigeration Technician 25B .....(5) RAP5254 Transport Refrigeration Technician 25C .....(5)	RAP6252 Transport Refrigeration Technician 35A .....(5) RAP6253 Transport Refrigeration Technician 35B .....(5) RAP6254 Transport Refrigeration Technician 35C .....(5) RAP6255 Transport Refrigeration Technician 35D .....(5)
RAP1641 Water Well Driller 15 .....(5)	RAP2641 Water Well Driller 25A .....(5) RAP2642 Water Well Driller 25B .....(5) RAP2643 Water Well Driller 25C .....(5)	RAP3641 Water Well Driller 35A.....(5) RAP3642 Water Well Driller 35B.....(5) RAP3643 Water Well Driller 35C.....(5) RAP3644 Water Well Driller 35D.....(5)
RAP1663 Welder 15.....(5)	RAP2663 Welder 25A .....(5) RAP2664 Welder 25B .....(5) RAP2665 Welder 25C .....(5)	RAP3663 Welder 35A.....(5) RAP3664 Welder 35B.....(5) RAP3665 Welder 35C.....(5) RAP3666 Welder 35D.....(5)

## Locally Developed Courses Course Codes and Course Names

Prerequisite courses are indicated by their linear arrangement across the page. The line symbol – also indicates a prerequisite that leads to more than one course. Course credits are shown in parentheses. Prerequisite courses are identified in each locally developed course.

Senior high school locally developed courses require ministry authorization and must be submitted to the ministry. School authorities must approve locally developed courses by a resolution or a motion of the board of a school authority or governing body of a private school prior to offering the locally developed courses. A list of withdrawn courses and programs appears at the end of the document.

### Career and Technology Studies (CTS)

Grade 10		Grade 11		Grade 12	
LDC1398	AAA Quality Leadership 15 (5)	LDC2398	AAA Quality Leadership 25 (5)		
LDC1821	Autobody Repair 15 K&E (5)	LDC2821	Autobody Repair 25 K&E (5)	LDC3821	Autobody Repair 35 K&E (5)
LDC1351	Aviation – Flight 15 (3)	LDC2351	Aviation – Flight 25 (3)	LDC3841	Aviation – Flight 35 (3)
LDC1346	Aviation – Navigation Aids 15 (3)				
		LDC2341	Aviation – Structures 25 (3)	LDC3341	Aviation – Structures 35 (3)
LDC1786	Broadcast Video 15 (5)	LDC2786	Broadcast Video 25 (5)	LDC3786	Broadcast Video 35 (5)
LDC1111	Business Problem Solving 15 (5)				
LDC1620	Cake Decorating 15 (3)	LDC2620	Cake Decorating 25 (3)		
LDC1224	Cybersecurity 15 (5)				
LDC1218	Data Visualization 15 (5)				
LDC1131	Design Thinking for Innovation 15 (3, 5)	LDC2131	Design Thinking for Innovation 25 (3, 5)	LDC3131	Design Thinking for Innovation 35 (3, 5)
LDC1147	Engineering and Design 15 (5)				
LDC1001	Equine Leadership 15 (3)				
LDC1004	Fire Rescue Services 15 (3)	LDC2256	Forensic Studies 25 (3)	LDC3256	Forensic Studies 35 (3, 5)
				LDC3123	Foundations in Industry Workplace Safety 35 (5)
LDC1138	Game Design and Development 15 (5)				
LDC1136	Game Theory 15 (5)				
LDC1144	Introduction to Legal Thinking 15 (5)				
LDC1007	Introduction to System Scaffolding (3)			LDC3236	Introduction to the Special Needs Educational Assistant Career Pathway 35 (5)
LDC1129	iOS App Design 15 (5)				
LDC1509	Leadership, Character & Social Responsibility 15 (3, 5)	LDC2509	Leadership, Character & Social Responsibility 25 (3, 5)	LDC3509	Leadership, Character & Social Responsibility 35 (3, 5)
LDC1911	Leather Technologies 15 (3, 5)	LDC2911	Leather Technologies 25 (3, 5)	LDC3911	Leather Technologies 35 (3, 5)
LDC1928	Life Skills 15 (5)	LDC2012	Linear Algebra 25 (5)		
				LDC3144	Medical Problem Solving 1 35 (5)
LDC1016	Oil and Exploration 15 (3)				
LDC1082	Parenting – Toddler Years 15 (3)			LDC3170	Preparation for Parenting 35 (3, 5)
LDC1239	Service Rig Floorhand 15 (5)			LDC3238	Special Needs Educational Assistant Career Pathway: Assistive and Adaptive Technology 35 (5)
LDC1008	Understanding Video Games 15 (5)				
LDC1492	Water Experiences 15 (3)	LDC2492	Water Experiences 25 (3)	LDC3492	Water Experiences 35 (3)
LDC1491	Winter Travel 15 (3)	LDC2491	Winter Travel 25 (3)	LDC3491	Winter Travel 35 (3)
LDC1157	Working with Three-dimensional Data 15 (5)	LDC2157	Working with Three-dimensional Data 25 (5)	LDC3157	Working with Three-dimensional Data 35 (5)
LDC1449	Yoga 15* (3, 5)	LDC2449	Yoga 25* (3, 5)	LDC3449	Yoga 35* (3, 5)
LDC1909	Yoga Fitness 15* (3, 5)	LDC2909	Yoga Fitness 25* (3, 5)	LDC3909	Yoga Fitness 35* (3, 5)

\* Yoga and Yoga Fitness are equivalent courses. Equivalent courses mean that credits may only be earned in one of the courses at the same grade level. For example, a student can only earn credits for Yoga 15 or for Yoga Fitness 15, not for both courses. Equivalent courses also meet the same prerequisite requirements. That is, Yoga 15 is an acceptable prerequisite to Yoga Fitness 25, and Yoga Fitness 15 is an acceptable prerequisite to Yoga 25.

**Knowledge and Employability Occupational Courses – see the CTS section**

**Fine Arts**

Grade 10		Grade 11		Grade 12	
LDC1975	Advanced Acting/Touring Theatre 15 (3, 5)	LDC2975	Advanced Acting/Touring Theatre 25 (3, 5)	LDC3975	Advanced Acting/Touring Theatre 35 (3, 5)
LDC1048	Advanced Ballet 15 (5)	LDC2048	Advanced Ballet 25 (5)	LDC3048	Advanced Ballet 35 (5)
LDC1857	Applied Graphic Arts 15 (3, 5)	LDC2857	Applied Graphic Arts 25 (3, 5)	LDC3857	Applied Graphic Arts 35 (3, 5)
LDC1471	Audio 15 (3, 5)	LDC2429	Art (IB) 25 (3)	LDC3471	Audio 35 (3, 5)
LDC1028	Ballet (Six-Year) 15 (5)	LDC2471	Audio 25 (3, 5)	LDC3028	Ballet (Six-Year) 35 (5)
LDC1412	Ballet 15 (5)	LDC2028	Ballet (Six-Year) 25 (5)	LDC3412	Ballet 35 (5)
LDC1439	Band 15 (3, 5)	LDC2412	Ballet 25 (5)	LDC3439	Band 35 (3, 5)
LDC1059	Ceramics Advanced Techniques 15 (5)	LDC2439	Band 25 (3, 5)	LDC3059	Ceramics Advanced Techniques 35 (5)
LDC1417	Chamber Ensemble 15 (3, 5)	LDC2059	Ceramics Advanced Techniques 25 (5)	LDC3417	Chamber Ensemble 35 (3, 5)
LDC1414	Choir 15 (3, 5)	LDC2417	Chamber Ensemble 25 (3, 5)	LDC3414	Choir 35 (3, 5)
LDC1029	Dance (Six-Year) 15 (5)	LDC2414	Choir 25 (3, 5)	LDC3467	Contemporary Dance 35 (5)
LDC1413	Dance 15 (3, 5)	LDC2467	Contemporary Dance 25 (5)	LDC3029	Dance (Six-Year) 35 (5)
LDC1299	Dance Performance 15 (3, 5)	LDC2029	Dance (Six-year) 25 (5)	LDC3413	Dance 35 (3, 5)
LDC1057	Drawing (Advanced Techniques) 15 (5)	LDC2413	Dance 25 (3, 5)	LDC3477	Dance Composition 35 (5)
LDC1092	Film and Media Art 15 (3, 5)	LDC2299	Dance Performance 25 (3, 5)	LDC3299	Dance Performance 35 (3, 5)
LDC1568	Guitar 15 (5)	LDC2468	Directing 25 (5)	LDC3468	Directing 35 (5)
LDC1551	Improvisational Theatre 15 (3, 5)	LDC2057	Drawing (Advanced Techniques) 25 (5)	LDC3057	Drawing (Advanced Techniques) 35 (5)
LDC1431	Instrumental Jazz 15 (3, 5)	LDC2092	Film and Media Art 25 (3, 5)	LDC3092	Film and Media Art 35 (3, 5)
LDC1258	Interpretive Dance 15 (3)	LDC2568	Guitar 25 (5)	LDC3568	Guitar 35 (5)
LDC1432	Marching Band 15 (3, 5)	LDC2551	Improvisational Theatre 25 (3, 5)	LDC3551	Improvisational Theatre 35 (3, 5)
LDC1552	Marching Band Visual 15 (5)	LDC2431	Instrumental Jazz 25 (3, 5)	LDC3431	Instrumental Jazz 35 (3, 5)
LDC1979	Musical Theatre 15 (3, 5)	LDC2006	Interpretive Dance 25 (3)	LDC3469	Jazz Dance 35 (5)
LDC1858	Musical Theatre Performance 15 (5)	LDC2469	Jazz Dance 25 (5)	LDC3458	Leadership in the Arts 35 (3, 5)
LDC1058	Painting – Advanced Techniques 15 (5)	LDC2432	Marching Band 25 (3, 5)	LDC3432	Marching Band 35 (3, 5)
LDC1944	Performing Arts 15 (3, 5)	LDC2552	Marching Band Visual 25 (5)	LDC3552	Marching Band Visual 35 (5)
LDC1441	Professional Studio Arts 15 (5)	LDC2153	Music Theory 25 (3)	LDC3153	Music Theory 35 (3)
LDC1067	Sculpting (Advanced Techniques) 15 (5)	LDC2979	Musical Theatre 25 (3, 5)	LDC3979	Musical Theatre 35 (3, 5)
LDC1459	Stained Glass (Advanced Techniques) 15 (3)	LDC2858	Musical Theatre Performance 25 (5)	LDC3858	Musical Theatre Performance 35 (5)
LDC1987	Technical Theatre 15 (3, 5)	LDC2058	Painting – Advanced Techniques 25 (5)	LDC3058	Painting – Advanced Techniques 35 (5)
LDC1237	Theatre Appreciation 15 (3)	LDC2944	Performing Arts 25 (3, 5)	LDC3944	Performing Arts 35 (3, 5)
LDC1367	Theatre Performance 15 (5)	LDC2441	Professional Studio Arts 25 (5)	LDC3158	Portfolio Art 35 (3, 5)
LDC1080	Ukulele/Guitar 15 (3)	LDC2067	Sculpting (Advanced Techniques) 25 (5)	LDC3441	Professional Studio Arts 35 (5)
LDC1433	Vocal Jazz 15 (5)	LDC2459	Stained Glass (Advanced Techniques) 25 (3, 5)	LDC3067	Sculpting (Advanced Techniques) 35 (5)
		LDC2494	Stained Glass (Advanced Techniques) 25 (3, 5)	LDC3459	Stained Glass (Advanced Techniques) 35 (5)
		LDC2987	Technical Theatre 25 (3, 5)	LDC3693	Studio Art (3)
		LDC2237	Theatre Appreciation 25 (3)	LDC3987	Technical Theatre 35 (3, 5)
		LDC2367	Theatre Performance 25 (5)	LDC3237	Theatre Appreciation 35 (3)
		LDC2433	Vocal Jazz 25 (5)	LDC3367	Theatre Performance 35 (5)
				LDC3433	Vocal Jazz 35 (5)
				LDC3084	World Theatre (IB) 35 (5)



## Second Languages

Grade 10		Grade 11		Grade 12	
LDC1378	American Sign Language (LA) 15 (5)	LDC2378	American Sign Language (LA) 25 (5)	LDC3378	American Sign Language (LA) 35 (5)
LDC1556	American Sign Language and Deaf Culture 15-9Y-5 (5)	LDC2556	American Sign Language and Deaf Culture 25-9Y-5 (5)	LDC3556	American Sign Language and Deaf Culture 35-9Y-5 (5)
LDC1289	American Sign Language and Deaf Culture 3Y 15-5 (5)	LDC2289	American Sign Language and Deaf Culture 3Y 25-5 (5)	LDC3289	American Sign Language and Deaf Culture 3Y 35-5 (5)
LDC1514	Arabic Language and Culture 15-12Y (5)	LDC2514	Arabic Language and Culture 25-12Y (5)	LDC3514	Arabic Language and Culture 35-12Y (5)
LDC1561	Arabic Language and Culture 15-6Y (5)	LDC2561	Arabic Language and Culture 25-6Y (5)	LDC3561	Arabic Language and Culture 35-6Y (5)
LDC1330	Arabic Language and Culture 15-3Y (5)	LDC2330	Arabic Language and Culture 25-3Y (5)	LDC3330	Arabic Language and Culture 35-3Y (5)
LDC1464	Chinese (Cantonese) Language and Culture 15-6Y (5)	LDC2464	Chinese (Cantonese) Language and Culture 25-6Y (5)	LDC3548	Chinese (AP) 35 (3)
LDC1249	Chinese (Cantonese) Language and Culture 15-3Y (5)	LDC2249	Chinese (Cantonese) Language and Culture 25-3Y (5)	LDC3464	Chinese (Cantonese) Language and Culture 35-6Y (5)
LDC1559	Dene Language and Culture 15-12Y (5)	LDC2559	Dene Language and Culture 25-12Y (5)	LDC3249	Chinese (Cantonese) Language and Culture 35-3Y (5)
LDC1339	Filipino Language and Culture 15-3Y (5)	LDC2339	Filipino Language and Culture 25-3Y (5)	LDC3559	Dene Language and Culture 35-12Y (5)
LDC1393	Greek Language and Culture 15-12Y (5)	LDC2393	Greek Language and Culture 25-12Y (5)	LDC3339	Filipino Language and Culture 35-3Y (5)
LDC1360	Greek Language and Culture 15-3Y (5)	LDC2360	Greek Language and Culture 25-3Y (5)	LDC3172	French Language and Literature 35 (3)
LDC1557	Gujarati Language and Culture 15-3Y (5)	LDC2557	Gujarati Language and Culture 25-3Y (5)	LDC3393	Greek Language and Culture 35-12Y (5)
LDC1397	Hebrew Language and Culture 15-12Y (5)	LDC2397	Hebrew Language and Culture 25-12Y (5)	LDC3360	Greek Language and Culture 35-3Y (5)
LDC1174	Hebrew Language Arts 15 (5)	LDC2174	Hebrew Language Arts 25 (5)	LDC3557	Gujarati Language and Culture 35-3Y (5)
LDC1090	Hindi Language and Culture 15-3Y (5)	LDC2495	Hungarian Language and Culture 25-3Y (5)	LDC3397	Hebrew Language and Culture 35-12Y (5)
LDC1495	Hungarian Language and Culture 15-3Y (5)	LDC2524	Nakoda/Nakota Language and Culture 25-12Y (5)	LDC3174	Hebrew Language Arts 35 (5)
LDC1524	Nakoda/Nakota Language and Culture 15-12Y (5)	LDC2524	Nakoda/Nakota Language and Culture 25-12Y (5)	LDC3495	Hungarian Language and Culture 35-3Y (5)
LDC1402	Polish Language and Culture 15-12Y (5)	LDC2402	Polish Language and Culture 25-12Y (5)	LDC3524	Nakoda/Nakota Language and Culture 35-12Y (5)
LDC1504	Polish Language and Culture 15-3Y (5)	LDC2504	Polish Language and Culture 25-3Y (5)	LDC3402	Polish Language and Culture 35-12Y (5)
LDC1498	Polish Language Arts 15 (5)	LDC2498	Polish Language Arts 25 (5)	LDC3504	Polish Language and Culture 35-3Y (5)
LDC1383	Portuguese Language and Culture 15-3Y (5)	LDC2383	Portuguese Language and Culture 25-3Y (5)	LDC3498	Polish Language Arts 35 (5)
LDC1554	Punjabi Language and Culture 12Y 15 (5)	LDC2554	Punjabi Language and Culture 12Y 25 (5)	LDC3383	Portuguese Language and Culture 35-3Y (5)
LDC1558	Punjabi Language and Culture 15-6Y (5)	LDC2558	Punjabi Language and Culture 25-6Y (5)	LDC3554	Punjabi Language and Culture 12Y 35 (5)
LDC1243	Russian Language and Culture 15-3Y (5)	LDC2243	Russian Language and Culture 25-3Y (5)	LDC3558	Punjabi Language and Culture 35-6Y (5)
LDC1503	Swedish Language and Culture 15-3Y (5)	LDC2503	Swedish Language and Culture 25-3Y (5)	LDC3243	Russian Language and Culture 35-3Y (5)
LDC1564	Tsuut'ina Language and Culture 15-12Y (5)	LDC2564	Tsuut'ina Language and Culture 25-12Y (5)	LDC3503	Swedish Language and Culture 35-3Y (5)
				LDC3564	Tsuut'ina Language and Culture 35-12Y (5)

## Other Subjects

Grade 10		Grade 11		Grade 12	
LDC1149	Academic Achievement through English Language Development 15 (3, 5)	LDC2149	Academic Achievement through English Language Development 25 (3, 5)	LDC3149	Academic Achievement through English Language Development 35 (3, 5)
LDC1006	Analytical Reasoning Through the Talmud 15 (5)				
LDC1947	Astronomy 15 (3)	LDC2947 LDC2391	Astronomy 25 (3) Avid Readers 25 (3, 5)	LDC3947	Astronomy 35 (3)
LDC1014 LDC1017	Beading (Elder Chronicles) 15 (3) Big History 15 (5)	LDC2041	Bioethics 25 (5)	LDC3202	Biology (Advanced) 35 (3)
LDC1803 LDC1078	Braided Journeys 15 (3) Building Communities of Hope 15 (3)	LDC2232 LDC2803 LDC2076	Biology (IB) 25 (3, 5) Braided Journeys 25 (3) Building Communities of Hope 25 (3)	LDC3232 LDC3803 LDC3177	Biology (IB) 35 (3, 5) Braided Journeys 35 (3) Building Communities of Hope 35 (3)
		LDC2282	Capstone 25 (3, 5)	LDC3255 LDC3282	Calculus (Advanced) 35 (3, 5) Capstone 35 (3, 5)
LDC1208	Classical Mythology 15 (3)	LDC2241	Chemistry (IB) 25 (3, 5)	LDC3138 LDC3241	Chemistry (Advanced) 35 (3) Chemistry (IB) 35 (3, 5)
LDC1515 LDC1516 LDC0010	Competencies in Math 15 (3, 5) Competencies in Science 15 (5) Content Literacy 15 (3, 5)			LDC3208	Comparative Mythology 35 (5)
LDC1152 LDC1269	Creative Nonfiction Writing 15 (5) Creative Writing and Publishing 15 (3, 5)	LDC0020 LDC2269	Content Literacy 25 (3, 5) Creative Writing and Publishing 25 (3, 5)	LDC3269	Creative Writing and Publishing 35 (3, 5)
LDC1795	Developing Personal Integrity 15 (5)	LDC2795	Developing Personal Integrity 25 (5)	LDC3795 LDC3169 LDC3116	Developing Personal Integrity 35 (5) English Literature 35 (3, 5) Environmental Science - Advanced 35 (5)
LDC1156	Epidemiology: Study of Pandemics 15 (3, 5)				
LDC1513 LDC1212	ESL Expository English 15 (5) ESL Introduction to Canadian Studies 15 (5)	LDC2513 LDC2212	ESL Expository English 25 (5) ESL Introduction to Canadian Studies 25 (5)		
LDC1350	ESL Introduction to Mathematics 15 (5)				
LDC1213	ESL Introduction to Science 15 (5)	LDC2213	ESL Introduction to Science 25 (5)		
LDC1253	Études religieuses 15 (3)	LDC2253	Études religieuses 25 (3)	LDC3253 LDC3257	Études religieuses 35 (3) European History 35 (3, 5)
LDC1009	Expanded Core Curriculum for Students with Visual Impairments 15 (3, 5)	LDC2009	Expanded Core Curriculum for Students with Visual Impairments 25 (3)	LDC3609	Extended Essay 35 (3)
LDC1031	Fantasy and Science Fiction Appreciation 15 (5)	LDC2031	Fantasy and Science Fiction Appreciation 25 (5)		
LDC1401 LDC1779 LDC1135	French Vernacular 15 (5) Gender Studies 15 (3) Gender Studies 15 (5)	LDC2401 LDC2779	French Vernacular 25 (5) Gender Studies 25 (3)	LDC3779	Gender Studies 35 (3)
LDC1130	Global Health 15 (5)	LDC2207	Global Perspectives 25 (5)	LDC3273	Global Economics 35 (3)
LDC1171	Hide Preparation and Tanning 15 (3)			LDC3207	Global Perspectives 35 (5)
LDC1011	History of War and Warfare 15 (3)	LDC2011	History of War and Warfare 25 (3)		
LDC1787 LDC1143	Holocaust Studies 15 (3) Human Condition and Shakespeare 15 (3)	LDC2787	Holocaust Studies 25 (5)	LDC3787	Holocaust Studies 35 (5)
LDC1502	Intercultural Studies 15 (3)				
LDC1696	Journalism 15 (5)	LDC2518 LDC2696	Jewish Practice and Culture 25 (3) Journalism 25 (5)	LDC3518 LDC3696	Jewish Practice and Culture 35 (3) Journalism 35 (5)

| Provincially Authorized Senior High School Courses and Course Codes (2021–2022) |

LDC1599	Learning Strategies 15 (3, 5)	LDC2599	Learning Strategies 25 (3, 5)	LDC3599	Learning Strategies 35 (3, 5)
LDC1590	Leveraging Social Capital 15 (5)				
LDC1778	Literary Creation 15 (3)	LDC2778	Literary Creation 25 (3)	LDC3120	Liberal Education 35 (5)
		LDC2627	Literature and Composition 25 (3)	LDC3778	Literary Creation 35 (3)
				LDC3627	Literature and Composition 35 (5)
				LDC3137	Macroeconomics (AP) 35 (3)
		LDC2209	Mathematics Analysis and Approaches 25 (5)	LDC3141	Marine Life and Ecosystems 35 (5)
				LDC3209	Mathematics Analysis and Approaches 35 (3)
LDC1172	Medicine Wheel 15 (3)				
LDC1027	Mental Health Literacy 15 (3)				
LDC1051	Military Studies 15 (3, 5)	LDC2051	Military Studies 25 (3, 5)	LDC3286	Microeconomics (AP) 35 (3)
		LDC2403	Myth-Busting Science 25 (3)	LDC3051	Military Studies 35 (3, 5)
LDC1109	Neuropsychology 15 (5)				
		LDC2069	Number Theory 25 (5)		
LDC1013	Orientation and Mobility 15 (3)	LDC2013	Orientation and Mobility 25 (3)		
LDC1293	Paleontology 15 (3, 5)	LDC2293	Paleontology 25 (3, 5)	LDC3293	Paleontology 35 (3, 5)
		LDC2411	Personal and Professional Skills 25 (3)	LDC3411	Personal and Professional Skills 35 (3)
LDC1298	Perspectives of the Human Condition 15 (5)	LDC2298	Perspectives of the Human Condition 25 (5)	LDC3298	Perspectives of the Human Condition 35 (5)
				LDC3213	Physics - Advanced 35 (5)
LDC1107	Positive Psychology 15 (5)	LDC2262	Physics (IB) 25 (3, 5)	LDC3262	Physics (IB) 35 (3, 5)
				LDC3145	Prenatal 35 (3)
LDC1160	Race and Society 15 (5)			LDC3155	Psychology - Abnormal 35 (3)
LDC1148	Reading 15 (3, 5)	LDC2148	Reading 25 (3, 5)	LDC3173	Psychology (AP) 35 (3)
LDC1923	Religious Studies Baptist 15 (5)			LDC3450	Religions of the World 35 (3, 5)
		LDC2923	Religious Studies Baptist 25 (5)		
		LDC2128	Religious Studies Book of Mormon Part A 25 (3)	LDC3923	Religious Studies Baptist 35 (5)
LDC1775	Religious Studies: Christian Studies 15 (3)			LDC3130	Religious Studies Book of Mormon Part B 35 (3)
		LDC2775	Religious Studies: Christian Studies 25 (3)		
				LDC3775	Religious Studies: Christian Studies 35 (3)
				LDC3566	Religious Studies Doctrine and Covenants Part A 35 (3)
LDC1593	Religious Studies Doctrine and Covenants Part B 15 (3)				
				LDC3790	Religious Studies Ethical Issues 35 (5)
LDC1088	Religious Studies (7th Day Adventist) 15 (5)				
		LDC2088	Religious Studies (7th Day Adventist) 25 (3)		
				LDC3088	Religious Studies (7th Day Adventist) 35 (3, 5)
LDC1785	Religious Studies: Islamic Studies 15 (5)				
		LDC2785	Religious Studies: Islamic Studies 25 (5)		
				LDC3785	Religious Studies: Islamic Studies 35 (5)
LDC1770	Religious Studies (Jewish Practice and Culture) 15 (3)				
LDC1018	Religious Studies (Koinonia) 15 (3, 5)				
		LDC2018	Religious Studies (Koinonia) 25 (3, 5)		
				LDC3018	Religious Studies (Koinonia) 35 (3, 5)
		LDC2790	Religious Studies Missional Living 25 (5)		

| Provincially Authorized Senior High School Courses and Course Codes (2021–2022) |

LDC1598	Religious Studies (Reformed) 15 (3, 5)	LDC2598	Religious Studies (Reformed) 25 (3, 5)	LDC3598	Religious Studies (Reformed) 35 (3, 5)
LDC1794	Religious Studies: Roman Catholic 15* (3, 5)	LDC2794	Religious Studies: Roman Catholic 25* (3, 5)	LDC3794	Religious Studies: Roman Catholic 35* (3, 5)
LDC1790	Religious Studies Sacred Texts 15 (5)	LDC2815	Religious Studies Sikh History & Culture 25 (5)	LDC3815	Religious Studies Sikh History & Culture 35 (5)
LDC1815	Religious Studies Sikh History & Culture 15 (5)	LDC2117	Religious Studies The New Testament Part B 25 (3)	LDC3143	Religious Studies The New Testament Part A 35 (3)
LDC1166	Religious Studies The Old Testament Part A 15 (3)	LDC3168	Religious Studies The Old Testament Part B 35 (3)		
LDC1155	Religious Studies The Study of Islam 15 (5)	LDC2358	Religious Studies: Ukrainian Catholic 25* (3, 5)	LDC3358	Religious Studies: Ukrainian Catholic 35* (3, 5)
LDC1358	Religious Studies: Ukrainian Catholic 15* (3, 5)	LDC3140	Scientific Research 35 (3)		
LDC1002	Self-Directed Learning 15 (3)				
LDC1175	Seven Teachings 15 (3)				
LDC1015	Smudging (Elder Chronicles) 15 (3)	LDC2023	Social Literacy 25 (3)		
LDC1023	Social Literacy 15 (3)	LDC2244	Speech and Debate 25 (3)	LDC3244	Speech and Debate 35 (3)
LDC1161	Social Psychology 15 (5)	LDC2220	Surviving Financially as an Adult 25 (5)		
LDC1005	Social Skills 15 (5)	LDC2152	Theory of Knowledge (IB) 25 (3)	LDC3152	Theory of Knowledge (IB) 35 (3)
LDC1209	Speech and Debate 15 (3)	LDC2248	Traditional Land Based Learning 25 (5)	LDC3248	Traditional Land Based Learning 35 (5)
LDC1003	Synthetic Biology 15 (3)	LDC2743	Workplace Essential Skills 25 (5)	LDC3743	Workplace Essential Skills 35 (5)
LDC1021	Tipi Making (Elder Chronicles) 15 (3)				
LDC1068	Treaties and Sovereignty 15 (3)				
LDC1012	Unified English Braille Code 15 (5)				

\* Religious Studies: Roman Catholic and Religious Studies: Ukrainian Catholic are equivalent courses. Equivalent courses mean that credits may only be earned in one of the courses at the same grade level. For example, a student can only earn credits for Religious Studies: Roman Catholic 15 or for Religious Studies: Ukrainian Catholic 15, not for both courses.

## External Learning Opportunities Course Codes and Course Names

Students can only earn high school credits when they complete an external course and receive a credential from the organization that provided it. They cannot earn credit just for writing an external exam such as the Alberta Class 5 Road Test or the Diplôme d'Études en Langue Française.

See the Guide to Education for requirements.

Course credits are shown in parentheses.

EXT1000	Bold Eagle Program (5)
EXT1001	Pediatrics Chronic Pain Clinic Program 10 (3)
EXT1002	Canadian Armed Forces Black Bear 10 (5)
EXT1003	Canadian Armed Forces Carcajou 10 (5)
EXT1004	Canadian Armed Forces Raven 10 (5)
EXT1005	Canadian Ski Instructors' Alliance Ski Instructor (Level 1 Certification) 10 (1)
EXT1006	Canadian Ski Instructors' Alliance Ski Instructor (Level 2 Certification) 10 (2)
EXT1007	Canadian Ski Instructors' Alliance Ski Instructor (Level 3 Certification) 10 (3)
EXT1008	Canadian Ski Instructors' Alliance Ski Instructor (Level 4 Certification) 10 (4)
EXT1009	Canadian Ski Instructors' Alliance Ski Instructor (Snow Park Certification) 10 (1)
EXT1010	Alberta Transportation Class 5 Driver Training 10 (1)
EXT1011	Lifesaving Society Bronze Cross 10 (1)
EXT1012	Lifesaving Society Lifesaving Instructor 10 (2)
EXT1013	Lifesaving Society National Lifeguard – Pool 10 (2)
EXT1014	Transport Canada Ground School 10 (2)
EXT1015	Transport Canada Flight Training 10 (2)

# K–12 Withdrawn Courses and Programs

## Withdrawn Effective August 31, 2021

LOCALLY DEVELOPED COURSES (LDCs)		
LDC3394	Advanced Dance 35	(3, 5)
LDC1163	Advanced Governance and Public Policy 15	(5)
LDC2163	Advanced Governance and Public Policy 25	(5)
LDC3163	Advanced Governance and Public Policy 35	(5)
LDC2208	Aeronautical Design 25	(5)
LDC1250	Band Music 15	(5)
LDC2250	Band Music 25	(5)
LDC2124	Capstone (AP) 25	(5)
LDC3114	Chronic Pain 35	(3)
LDC3363	Class V Driver Training 35	(3)
LDC3221	English (AP) 35	(3, 5)
LDC3351	ESL English for Academic Success 35	(3, 5)
LDC1513	ESL Expository English 15	(5)
LDC2513	ESL Expository English 25	(5)
LDC3187	European History (AP) 35	(3, 5)
LDC3147	Extended Essay (IB) 35	(3)
LDC3134	FACES 35	(5)
LDC2134	FACES Practicum 25	(5)
LDC1134	FACES Principles 15	(5)
LDC1248	Fantasy and Science Fiction 15	(5)
LDC3754	Forensic Science Studies 35	(5)
LDC2569	Forensic Studies 25	(3)
LDC3569	Forensic Studies 35	(3)
LDC2516	Geology 25	(3)
LDC3515	Geology 35	(3)
LDC2137	Health Care Fund 25	(5)
LDC2549	Health Care Professionalism 25	(3)
LDC3118	International & Development Economics (IB) 35	(3)
LDC2145	Literature and Composition (AP) 25	(3)
LDC2444	Meaning in Film 25	(3)
LDC3352	Pharmaceutical Therapeutics 35	(3, 5)
LDC0023	Popular Culture 25	(3, 5)
LDC0033	Popular Culture 35	(3, 5)
LDC3125	Popular Music in the Twentieth Century 35	(3)
LDC3222	Pre-Engineering 35	(5)
LDC3357	Prescription Processing 35	(5)
LDC1070	Production Field Operations (PFO) 15	(5)
LDC3127	Production Field Operations (PFO) A 35	(5)
LDC3128	Production Field Operations (PFO) B 35	(5)
LDC1079	Religious Education (Adventism) 15	(5)
LDC2079	Religious Education (Adventism) 25	(5)
LDC2072	Religious Studies (Religious Leaders) 25	(5)
LDC1072	Religious Studies (Sacred Texts) 15	(5)
LDC1294	SciTech 15	(3, 5)
LDC2206	Social Literacy 25	(3)
LDC3206	Social Literacy 35	(3)
LDC3348	Spanish (AP) 35	(3)
LDC2479	Stewardship of Protected Lands 25	(3)
LDC3479	Stewardship of Protected Lands 35	(3)
LDC1081	Video 15	(5)
LDC2081	Video 25	(5)
LDC3081	Video 35	(5)
LDC2343	Workplace Essential Skills 25	(3)
LDC3343	Workplace Essential Skills 35	(3)
LDC3008	Works in Translation (IB) 35	(3)
LDC2553	Youth Evangelization I 25	(3)
LDC3553	Youth Evangelization II 35	(3)

## Withdrawn Effective February 1, 2021

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Health Care Aide</b></p>	<p>HCA3400 Role &amp; Responsibilities                      HCA3405 Safety Systems                      HCA3410 Communication Level 1                      HCA3415 Communication Level 2                      HCA3420 The Human Body                      HCA3425 Aging &amp; Illness                      HCA3430 Client Hygiene                      HCA3435 Bathing &amp; Elimination                      HCA3440 Bed Making &amp; Mobility                      HCA3445 Positioning &amp; Meals                      HCA3450 Clinical Practice 1A                      HCA3455 Clinical Practice 1B                      HCA3460 Clinical Practice 1                      HCA3465 Complex Care Needs 1                      HCA3470 Complex Care Needs 2                      HCA3475 Medication Delivery                      HCA3480 Diverse Client Groups                      HCA3485 Clients with Dementia                      HCA3490 Disability &amp; Mortality                      HCA3495 Clinical Practice 2A                      HCA3500 Clinical Practice 2B                      HCA3505 Clinical Practice 2C                      HCA3510 Clinical Practice 2D                      HCA3515 Clinical Practice 2E                      HCA3520 Clinical Practice 2F                      HCA3525 Clinical Practice 2G                      HCA3530 Clinical Practice 2</p>
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## Withdrawn Effective August 31, 2020

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Industrial Mechanic (Millwright) Apprenticeship</b></p>	<p>MWA3400 Rigging                      MWA3410 Layout                      MWA3415 Portable Tools                      MWA3425 Drilling &amp; Milling                      MWA3430 Lathe Introduction                      MWA3435 Lathe Operation                      MWA3440 Machine Installation                      MWA3445 Numbers                      MWA3450 Mathematics                      MWA3455 Print Reading</p>
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## Withdrawn Effective August 31, 2019

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Hairstylist Apprenticeship</b></p>	<p>HSA3400 Hair &amp; Scalp Care 1                      HSA3410 Hair &amp; Scalp Care 2                      HSA3420 Hair &amp; Scalp Care 3                      HSA3425 Hair &amp; Scalp Care 4 – Client Services                      HSA3430 Hair Styling 1                      HSA3440 Hair Styling 2                      HSA3445 Hair Styling 3 – Client Services                      HSA3450 Haircutting 1                      HSA3455 Haircutting 2 – Client Services                      HSA3460 Haircutting 3 – Advanced Techniques                      HSA3465 Haircutting 4 – Advanced Techniques Client Services                      HSA3470 Haircutting 5 – Creative Services                      HSA3475 Haircutting 6 – Creative Client Services                      HSA3485 Haircutting 7 – Current Trends Client Services                      HSA3495 Haircutting 8 – Male Client Services                      HSA3505 Hair Care &amp; Cutting 1 – Client Services                      HSA3515 Hair Care &amp; Cutting 2 – Client Services                      HSA3520 Chemical Texturizing 1                      HSA3530 Chemical Texturizing 2 – Cold Waving                      HSA3540 Chemical Texturizing 3 – Heat Assisted</p>
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	<p>HSA3550 Chemical Texturizing 4 – Designer                      HSA3555 Chemical Texturizing 5 – Client Services                      HSA3560 Hair Texturizing                      HSA3565 Hair Texturizing – Client Services                      HSA3570 Hair Colouring 1                      HSA3580 Hair Colouring 2 – Oxidative                      HSA3585 Hair Colouring 3 – Client Services                      HSA3590 Hair Colouring 4 – Decolourization                      HSA3595 Hair Colouring 5 – Decolourization Client Services                      HSA3600 Hair Colouring 6 – Colour Correction                      HSA3605 Hair Colouring 7 – Advanced Client Services 1                      HSA3615 Hair Colouring 8 – Advanced Client Services 2                      HSA3620 Hair Goods &amp; Extensions                      HSA3625 Hair Goods &amp; Extensions – Client Services                      HSA3630 Historical Cosmetology                      HSA3640 Creative Cosmetology                      HSA3650 Competition Cosmetology</p>
<b>Landscape Horticulturist Apprenticeship</b>	<p>LGA3405 Landscape Equipment                      LGA3410 Soils 1                      LGA3415 Soils 2                      LGA3420 Plant Identification                      LGA3430 Plants &amp; Landscape                      LGA3445 Greenhouse Environment                      LGA3450 Greenhouse Production                      LGA3455 Greenhouse System                      LGA3460 Site Preparation                      LGA3465 Turf                      LGA3470 Woody Plants</p>
<b>Painter Decorator Apprenticeship</b>	<p>PDA3425 Colour</p>
<b>Plumber Apprenticeship</b>	<p>PLA3405 Tools &amp; Equipment                      PLA3410 Nonferrous Materials                      PLA3415 Ferrous Materials                      PLA3420 Welded &amp; Flanged Mat                      PLA3425 Historic Materials                      PLA3430 Residential Plumbing                      PLA3435 Drainage &amp; Venting                      PLA3440 Fixtures &amp; Trim                      PLA3445 Heating                      PLA3450 Heating Installation                      PLA3455 Gas Fundamentals                      PLA3460 Gas Theory                      PLA3465 Plumbing Mathematics                      PLA3470 Plumbing Science                      PLA3475 Print Reading</p>
<b>PSI Dual Enrolled Dual Credit Courses</b>	<p>PSI3006 Emergency Medical Responder 1                      PSI3007 Emergency Medical Responder 2                      PSI3008 Emergency Medical Responder 3                      PSI3009 Emergency Medical Responder 4                      PSI3010 Emergency Medical Responder Practice                      PSI3159 Bioengineering for the Future</p>
<b>LOCALLY DEVELOPED COURSES (LDCs)</b>	<p>LDC3102 Accounting 35 (withdrawn Jan 31, 2019)                      LDC3296 Art History 35 (withdrawn Jan 31, 2019)                      LDC3027 Critical Writing and Reading 35 (withdrawn Jan 31, 2019)                      LDC3082 English Critical Reading &amp; Writing: Prose 35 (withdrawn Jan 31, 2019)                      LDC3103 Human – Computer Interface 35 (withdrawn Jan 31, 2019)                      LDC3107 Indigenous Studies 35 (withdrawn Jan 31, 2019)                      LDC2394 Advanced Dance 25                      LDC3007 Aviation 35                      LDC3620 Cake Decorating - Advanced 35                      LDC1020 Christian Studies 15                      LDC2020 Christian Studies 25                      LDC3020 Christian Studies 35                      LDC2258 Création en danse 25                      LDC1030 Dance (Twelve Year) 15                      LDC2030 Dance (Twelve Year) 25                      LDC3030 Dance (Twelve Year) 35                      LDC2147 Extended Essay (IB) 25                      LDC2004 Fire Rescue Services 25</p>



	<p>LDC1512 Korean Language and Culture 15-3Y                  LDC2512 Korean Language and Culture 25-3Y                  LDC3512 Korean Language and Culture 35-3Y                  LDC1508 Le crayon musclé 15 (F)                  LDC2508 Le crayon musclé 25 (F)                  LDC3508 Le crayon musclé 35 (F)                  LDC2222 Pre-Engineering 25                  LDC3117 Preparation for Parenting 35                  LDC1724 Religious Education (Roman Catholic) 15                  LDC2724 Religious Education (Roman Catholic) 25                  LDC3724 Religious Education (Roman Catholic) 35                  LDC3129 Religious Studies Book of Mormon Part A 35                  LDC1592 Religious Studies Doctrine and Covenants Part A 15                  LDC2116 Religious Studies The New Testament Part A 25                  LDC3167 Religious Studies The Old Testament Part A 35                  LDC1274 Rock and Pop 15                  LDC2274 Rock and Pop 25                  LDC3274 Rock and Pop 35                  LDC3040 Solidaire humanitaire 35                  LDC3121 Systems and Supply Chains 35                  LDC2522 Triathlon 25                  LDC3522 Triathlon 35                  LDC2001 Veterinary - Introduction to the Veterinary Profession 25                  LDC2002 Veterinary - Principles of Veterinary Clinical Procedures 25                  LDC3109 Veterinary - Small Animal Restraint and Handling 35                  LDC3113 Veterinary Equipment and Instrumentation 35                  LDC2003 Veterinary Patient Preparation and Husbandry 25                  LDC1019 Yoga Fitness 15                  LDC2019 Yoga Fitness 25                  LDC3019 Yoga Fitness 35</p>
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### Withdrawn Effective August 31, 2018

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Power Engineering</b></p>	<p>PEN3500 Math &amp; Mechanics                  PEN3505 Science Principles                  PEN3510 Foundations                  PEN3515 Safety                  PEN3520 Environmental Impact                  PEN3525 Materials &amp; Welding                  PEN3530 Boiler Construction                  PEN3535 Draft, Valves &amp; Gauges                  PEN3540 Boiler Operation                  PEN3545 Engines &amp; Turbines                  PEN3550 Pumps                  PEN3555 Electricity                  PEN3560 Instrumentation                  PEN3565 Heating Boilers                  PEN3570 Heating Systems                  PEN3575 System Controls                  PEN3580 Refrigeration 1                  PEN3585 Refrigeration 2                  PEN3590 Air Conditioning 1                  PEN3595 Air Conditioning 2                  PEN3600 Boiler Maintenance</p>
<p><b>REGISTERED APPRENTICESHIP PROGRAM (RAP)</b></p>	<p>RAP4228 Sawfiler 15                  RAP5228 Sawfiler 25A                  RAP5229 Sawfiler 25B                  RAP5230 Sawfiler 25C                  RAP6228 Sawfiler 35A                  RAP6229 Sawfiler 35B                  RAP6230 Sawfiler 35C                  RAP6231 Sawfiler 35D</p>
<p><b>LOCALLY DEVELOPED COURSES (LDCs)</b></p>	<p>LDC1326 Arabic Language Arts 15                  LDC2326 Arabic Language Arts 25                  LDC3326 Arabic Language Arts 35                  LDC3631 Education 35                  LDC3164 Abnormal Psychology 35                  LDC1394 Advanced Dance 15                  LDC3295 Anthropology 35</p>

	LDC1206 Beginner Music – Choral 15 LDC1207 Beginner Music – Instrumental 15 LDC3220 Chemistry (AP) 35 LDC3517 Digital Character Illustration & Modelling 35 LDC1462 Drill and Parade 15 LDC2462 Drill and Parade 25 LDC3462 Drill and Parade 35 LDC3239 Energy Education: Orientation to Service Rigs 35 LDC3604 Enhanced English for Business, Engineering and Social Sciences 35 LDC2754 Forensic Science Studies 25 LDC3754 Forensic Science Studies 35 (only 3 credit version withdrawn) LDC3605 Global Perspectives Through the Arts (IBCC) 35 LDC3606 Horticulture 35 LDC3502 Intercultural Studies 35 LDC3398 Leadership de Qualité AAA 25 (only 3 credit version withdrawn) LDC3398 Leadership de Qualité AAA 35 LDC1146 Learning Strategies 15 LDC2146 Learning Strategies 25 LDC3146 Learning Strategies 35 LDC3753 Marine Biology 35 LDC2136 Musical Theatre in Performance 25 LDC3136 Musical Theatre in Performance 35 LDC1222 Pre-Engineering 15 LDC3448 Professional Development in the Arts 35 LDC3283 Religious Studies Doctrine and Covenants 35 LDC3204 Religious Studies Old Testament 35 LDC1723 Science Literacy 15 LDC2723 Science Literacy 25 LDC3723 Science Literacy 35 LDC2625 Sport, Exercise & Health Science (IB) 25 LDC3625 Sport, Exercise & Health Science (IB) 35 LDC1223 Vocal Music 15 LDC2223 Vocal Music 25 LDC3223 Vocal Music 35
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### Withdrawn Effective August 31, 2017

<b>CAREER AND TECHNOLOGY STUDIES</b>	
<b>Auto Body Technician Apprenticeship</b>	ABA3400 Batteries, Trim & Tools
<b>REGISTERED APPRENTICESHIP PROGRAM (RAP)</b>	RAP4248 Tool and Die Maker 15 RAP5248 Tool and Die Maker 25A RAP5249 Tool and Die Maker 25B RAP5250 Tool and Die Maker 25C RAP6248 Tool and Die Maker 35A RAP6249 Tool and Die Maker 35B RAP6250 Tool and Die Maker 35C RAP6251 Tool and Die Maker 35D
<b>LOCALLY DEVELOPED COURSES (LDCs)</b>	LDC3516 Advanced Film and Media Studies 35 (5 credits) LDC0015 Film Studies 15 (3 or 5 credits) LDC0025 Film Studies 25 (3 or 5 credits) LDC3444 Film Studies 35 (3 or 5 credits) LDC1563 The Life and Times of Jesus Christ 15 (3 credits)

## Withdrawn Effective August 31, 2015

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Carpenter Apprenticeship</b></p>	<p>CRA3400 Introduction to Work Site Safety, 2009 (E)                      CRA3405 Basic Hand, Power Tools &amp; Safety, 2009 (E)                      CRA3410 Construction Materials &amp; Processes, 2009 (E)                      CRA3415 Site Preparation &amp; Floor Systems, 2009 (E)                      CRA3420 Foundations &amp; Concrete Structures, 2009 (E)                      CRA3425 Blueprint Drawings &amp; Sketching, 2009 (E)                      CRA3430 Construction Machines, Tools &amp; Equipment, 2009 (E)                      CRA3435 Blueprint Interpretation, 2009 (E)                      CRA3440 CRA Practicum Course A, 2009 (E)                      CRA3445 CRA Practicum Course B, 2009 (E)                      CRA3450 CRA Practicum Course C, 2009 (E)                      CRA3455 CRA Practicum Course D, 2009 (E)</p>
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## Withdrawn Effective August 31, 2014

<p><b>CAREER AND TECHNOLOGY STUDIES</b></p> <p><b>Cook Apprenticeship</b></p>	<p>CKA3400 Kitchen Orientation, 2010 (E)                      CKA3405 Kitchen Orientation – Food Service, 2010 (E)                      CKA3410 Culinary Fundamentals, 2010 (E)                      CKA3420 Breakfast Foods, 2010 (E)                      CKA3425 Breakfast – Food Service, 2010 (E)                      CKA3430 Entremetier, 2010 (E)                      CKA3435 Entremetier – Food Service, 2010 (E)                      CKA3440 Pantry – Salads &amp; Sandwiches, 2010 (E)                      CKA3445 Pantry – Food Service, 2010 (E)                      CKA3450 Bakeshop, 2010 (E)                      CKA3465 Bakeshop – Food Service, 2010 (E)                      CKA3470 Yeast Products, 2010 (E)                      CKA3475 Yeast Products – Food Service, 2010 (E)                      CKA3480 Saucier 1, 2010 (E)                      CKA3490 Saucier 2, 2010 (E)                      CKA3495 Saucier – Food Service, 2010 (E)                      CKA3500 Meat Cookery, 2010 (E)                      CKA3515 Meat Cookery – Food Service, 2010 (E)                      CKA3520 Poultry, Fish &amp; Seafood, 2010 (E)                      CKA3525 Poultry, Fish &amp; Seafood – Food Service, 2010 (E)</p>
<p><b>Welder Apprenticeship</b></p>	<p>WDA3400 Fabrication Orientation &amp; Safety, 2009 (E)                      WDA3405 Fabrication Tools &amp; Weld Faults, 2009 (E)                      WDA3410 Oxyfuel Welding, 2009 (E)                      WDA3425 Materials Handling, 2009 (E)                      WDA3430 Shielded Metal Arc Welding – Part 1, 2009 (E)                      WDA3435 Shielded Metal Arc Welding – Part 2, 2009 (E)                      WDA3440 Shop/Lab Practices for GMAW, FCAW &amp; SAW, 2009 (E)</p>

## Withdrawn Effective August 31, 2012

<p><b>MATHEMATICS</b></p>	<p>MAT3037 Pure Mathematics 30, 2002 (E+F)                      MAT3038 Applied Mathematics 30, 2002 (E+F)</p>
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E = English  
 F = French

## Withdrawn Effective August 31, 2011

<b>CAREER AND TECHNOLOGY STUDIES</b>	
<b>Career Transitions</b>	CTR1030 Client Service 1, 1999 (F) CTR1110 Project 1A, 2004 (F) CTR1120 Project 1B, 2004 (F) CTR1210 Personal Safety (Management), 1997 (E+F) CTR2030 Governance & Leadership, 2003 (F) CTR2040 Client Service 2, 1999 (F) CTR2110 Project 2A, 2004 (F) CTR2120 Project 2B, 2004 (F) CTR2130 Project 2C, 2004 (F) CTR2140 Project 2D, 2004 (F) CTR2150 Project 2E, 2004 (F) CTR2210 Workplace Safety (Practices), 1997 (E+F) CTR3030 Leading for Change, 1997 (F) CTR3210 Safety Management Systems, 1997 (E+F)
<b>Communication Technology</b>	COM1020 Media & You, 1997 (F) COM1030 Photography 1, 1997 (F) COM1060 Audio/Video Production 1, 1997 (F) COM1070 Animation 1, 1997 (F) COM1080 Digital Design 1, 1997 (F) COM1210 Digital Imaging 1, 2002 (F) COM2020 Media Design & Analysis 1, 1997 (F) COM2030 Script Writing 1, 1997 (F) COM2040 Photography 2, 1997 (F) COM2090 Audio/Video 1, 1997 (F) COM2100 Audio/Video 2, 1997 (F)
<b>Cosmetology</b>	COS1030 Hair & Scalp Care 1, 1997 (F) COS1040 Forming & Finishing 1, 2005 (F) COS1050 Permanent Waving 1 (The Physical Process), 2005 (F) COS1070 Manicuring 1, 1997 (F) COS1080 Theatrical Makeup 1 (Basic Principles), 2005 (F)
<b>Design Studies</b>	DES2010 2-D Design Applications, 1997 (F) DES2020 3-D Design Applications, 1997 (F) DES2040 Drafting/Design Applications, 1997 (F) DES3010 2-D Design Studio 1, 1997 (F) DES3040 3-D Design Studio 1, 1997 (F) DES3050 3-D Design Studio 2, 1997 (F) DES3060 3-D Design Studio 3, 1997 (F) DES3070 Living Environment Studio 1, 1997 (F) DES3080 Living Environment Studio 2, 1997 (F) DES3090 Living Environment Studio 3, 1997 (F) DES3180 The Design Profession, 1997 (F) DES3190 Portfolio Presentation, 1997 (F)
<b>Fashion Studies</b>	FAS1040 Fashion Basics, 1997 (F) FAS1070 Creative Yarns/Textiles, 1997 (F) FAS2010 Fashion Dynamics, 1997 (F) FAS2020 Fashion Illustration 1, 1997 (F) FAS2070 Creative Construction, 1997 (F) FAS3010 Fashion Illustration 2, 1997 (F)
<b>Foods</b>	FOD2010 Food & Nutrition Basics, 1997 (F) FOD2020 Nutrition & the Athlete, 1997 (F) FOD2080 Vegetables/Fruits/Grains, 1997 (F) FOD3140 International Cuisine 2, 1997 (F)
<b>Forestry</b>	FOR1060 Measuring the Forest 1 (Measurement Skills), 1997 (F) FOR1090 Forest Ecology 1 (Ecosystem Dynamics), 1997 (F) FOR2120 Users in the Forest, 1997 (F) FOR3120 Integrated Resource Management (Balancing Needs), 1997 (F)

E = English  
F = French

<b>Wildlife</b>	WLD1030 Outdoor Experiences 1 (Survival Skills), 1997 (F) WLD2030 Outdoor Experiences 2 (Wilderness Excursion), 1997 (F)
<b>FRENCH AS A SECOND LANGUAGE</b>	FSL3309 French as a Second Language 30, 1991
<b>MATHEMATICS</b>	MAT2037 Pure Mathematics 20, 2002 (E+F) MAT2039 Pure Mathematics 20B, 2002 (E+F) MAT2038 Applied Mathematics 20, 2002 (E+F) MAT2040 Applied Mathematics 20B, 2002 (E+F) MAT2225 Mathematics 24, 2004 (E+F)

### Withdrawn Effective January 31, 2011

<b>CAREER AND TECHNOLOGY STUDIES</b>	
<b>Foods</b>	
<u>Cook Apprenticeship</u>	CKA3460 Bakeshop 2, 2010 (E) CKA3510 Meat Cookery 2, 2010 (E) CKA3530 Butcher Shop, 2010 (E) CKA3540 Value-added Products, 2010 (E) CKA3555 Banquet Preparation – Food Service, 2010 (E)

### Withdrawn Effective August 31, 2010

<b>CAREER AND TECHNOLOGY STUDIES</b>	
<b>Agriculture</b>	AGR1030 Production Basics, 1997 (E+F) AGR1060 Consumer Products & Services, 1997 (F) AGR1090 Market Fundamentals, 1997 (F) AGR1110 Resource Management, 1997 (E+F) AGR2080 Floral Design 1 (Projects for all Occasions), 1997 (E+F) AGR2090 Marketing 1, 1997 (F) AGR2140 Nursery/Greenhouse Crops 1 (Materials & Processes), 1997 (E+F) AGR3010 Issues in Agriculture, 1997 (E+F) AGR3080 Floral Design 2 (Creative Design & Display), 1997 (E+F) AGR3090 Marketing 2, 1997 (F) AGR3110 Water Management, 1997 (E+F) AGR3130 Sustainable Agriculture Systems, 1997 (E+F) AGR3140 Nursery/Greenhouse Crops 2 (Management Techniques), 1997 (E+F)
<b>Career Transitions</b>	CTR1030 Client Service 1, 1999 (E) CTR1110 Project 1A, 2004 (E) CTR1120 Project 1B, 2004 (E) CTR2030 Governance & Leadership, 2003 (E) CTR2040 Client Service 2, 1999 (E) CTR2110 Project 2A, 2004 (E) CTR2120 Project 2B, 2004 (E) CTR2130 Project 2C, 2004 (E) CTR2140 Project 2D, 2004 (E) CTR2150 Project 2E, 2004 (E) CTR3030 Leading for Change, 1997 (E) CTR3040 Practicum A, 2004 (E+F) CTR3050 Practicum B, 2004 (E+F) CTR3060 Practicum C, 2004 (E+F) CTR3070 Practicum D, 2004 (E+F) CTR3080 Practicum E, 2004 (E+F) CTR3090 Client Service 3, 1999 (E+F) CTR3110 Project 3A, 2004 (E+F) CTR3120 Project 3B, 2004 (E+F) CTR3130 Project 3C, 2004 (E+F) CTR3140 Project 3D, 2004 (E+F) CTR3150 Project 3E, 2004 (E+F)

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<p><b>Communication Technology</b></p>	<p>COM1020 Media &amp; You, 1997 (E)                      COM1030 Photography 1, 1997 (E)                      COM1050 Printing 1, 1997 (E+F)                      COM1060 Audio/Video Production 1, 1997 (E)                      COM1070 Animation 1, 1997 (E)                      COM1080 Digital Design 1, 1997 (E)                      COM1210 Digital Imaging 1, 2002 (E)                      COM2020 Media Design &amp; Analysis 1, 1997 (E)                      COM2030 Script Writing 1, 1997 (E)                      COM2040 Photography 2, 1997 (E)                      COM2050 Photographic Communication, 1997 (E+F)                      COM2060 Photographic Techniques 1, 1997 (E+F)                      COM2070 Printing Techniques 1, 1997 (E+F)                      COM2080 Printing Applications 1, 1997 (E+F)                      COM2090 Audio/Video 1, 1997 (E)                      COM2100 Audio/Video 2, 1997 (E)                      COM2110 Animation 2, 1997 (E)                      COM2120 Digital Design 2, 1997 (E)                      COM2130 Special Effects Photography, 1997 (E)                      COM2210 Digital Imaging 2, 2002 (E)                      COM3020 Media Design &amp; Analysis 2, 1997 (E)                      COM3030 Script Writing 2, 1997 (E)                      COM3040 Photography 3, 1997 (E)                      COM3050 Photojournalism, 1997 (E)                      COM3060 Photographic Techniques 2, 1997 (E)                      COM3070 Colour Photography, 1997 (E)                      COM3080 Printing Techniques 2, 1997 (E)                      COM3090 Printing Applications 2, 1997 (E)                      COM3100 Audio 3, 1997 (E)                      COM3110 Video 3, 1997 (E)                      COM3120 Animation 3, 1997 (E)                      COM3130 Digital Design 3, 1997 (E)                      COM3210 Digital Imaging 3, 2002 (E)</p>
<p><b>Community Health</b></p>	<p>CMH1010 Family Dynamics, 1997 (E+F)                      CMH1040 Caring for Children, 1997 (E+F)                      CMH1050 Child Development, 1997 (E+F)                      CMH1060 Home Care 1, 1997 (E+F)                      CMH1080 Perspectives on Health, 1997 (E+F)                      CMH2010 Adolescent Health Issues, 1997 (E+F)                      CMH2030 Community Volunteerism, 1997 (E+F)                      CMH2050 Day Care 1, 1997 (E+F)                      CMH2060 Home Care 2, 1997 (E+F)                      CMH2070 Sensory Challenges, 1997 (E+F)                      CMH2080 Respiratory System, 1997 (E+F)                      CMH2090 Circulatory System, 1997 (E+F)                      CMH2100 Musculoskeletal System, 1997 (E+F)                      CMH2110 Complementary Therapies, 1997 (E+F)                      CMH2120 First Aid/CPR, 1997 (E+F)                      CMH2130 Sports First Aid 1, 1997 (E+F)                      CMH3010 Family Issues, 1997 (E+F)                      CMH3020 Parenting, 1997 (E+F)                      CMH3030 Aging, 1997 (E+F)                      CMH3040 Prenatal &amp; Postnatal Care, 1997 (E+F)                      CMH3050 Day Care 2, 1997 (E+F)                      CMH3060 Home Care 3 (Special Conditions), 1997 (E+F)                      CMH3070 Challenged Individuals, 1997 (E+F)                      CMH3080 Digestive System, 1997 (E+F)                      CMH3090 Nervous/Endocrine Systems, 1997 (E+F)                      CMH3100 Mental Health, 1997 (E+F)                      CMH3110 Advances in Medical Technology, 1997 (E+F)                      CMH3120 First Aid/CPR for Children, 1997 (E+F)                      CMH3130 Sports First Aid 2, 1997 (E+F)                      CMH3140 Perspectives on Marriage, 2001 (E+F)</p>
<p><b>Construction</b></p>	<p>CON2040 Framing Systems 1, 2005 (F)                      CON3100 Commercial Structures, 1997 (F)</p>

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<p><b>Cosmetology</b></p>	<p>COS1030 Hair &amp; Scalp Care 1, 1997 (E)                  COS1040 Forming &amp; Finishing 1, 2005 (E)                  COS1050 Permanent Waving 1 (The Physical Process), 2005 (E)                  COS1060 Skin Care 1 (Basic Principles), 1997 (E)                  COS1070 Manicuring 1, 1997 (E)                  COS1080 Theatrical Makeup 1 (Basic Principles), 2005 (E)                  COS2020 Hair &amp; Scalp Care 2, 2005 (E+F)                  COS2030 Forming &amp; Finishing 2, 2005 (E+F)                  COS2040 Haircutting 1, 2005 (E+F)                  COS2050 Hair Care &amp; Cutting 1 (Client Services), 2005 (E+F)                  COS2060 Permanent Waving 2 (Cold Waving), 2005 (E+F)                  COS2070 Permanent Waving 3 (Heat-assisted), 2005 (E+F)                  COS2080 Permanent Waving 4 (Client Services), 2005 (E+F)                  COS2090 Colouring 1, 2005 (E+F)                  COS2100 Colour Removal 1, 2005 (E+F)                  COS2110 Colouring &amp; Removal 1, 2005 (E+F)                  COS2120 Facials &amp; Makeup 1, 2005 (E+F)                  COS2130 Facials &amp; Makeup 2 (Client Services), 2005 (E+F)                  COS2140 Skin Care 2 (Client Services), 2005 (E+F)                  COS2150 Manicuring 2, 2005 (E+F)                  COS2160 Nail Art, 2005 (E+F)                  COS2170 Manicuring 3 (Client Services), 2005 (E+F)                  COS2180 Hairpieces &amp; Extensions, 2005 (E+F)                  COS2190 Theatrical Makeup 2 (Planning the Images), 2005 (E+F)                  COS2200 Historical Cosmetology, 2005 (E+F)                  COS3030 Hair &amp; Scalp Care 3, 2005 (E+F)                  COS3040 Hair &amp; Scalp Care 4 (Client Services), 2005 (E+F)                  COS3050 Haircutting 2, 2005 (E+F)                  COS3060 Haircutting 3 (Client Services), 2005 (E+F)                  COS3070 Hair Care &amp; Cutting 2 (Client Services), 2005 (E+F)                  COS3080 Permanent Waving 5 (Designer), 2002 (E+F)                  COS3090 Relax/Straighten Hair, 2005 (E+F)                  COS3100 Wave Relax &amp; Straighten Hair (Client Services), 2005 (E+F)                  COS3110 Colouring 2 (Permanent), 2005 (E+F)                  COS3120 Colour Removal 2, 2005 (E+F)                  COS3130 Colouring &amp; Removal 2 (Client Services), 2005 (E+F)                  COS3140 Body Therapy, 2005 (E+F)                  COS3150 Hair Removal, 2005 (E+F)                  COS3160 Skin Care 3 (Client Services), 2005 (E+F)                  COS3170 Male Facial Grooming 1, 2005 (E+F)                  COS3180 Male Facial Grooming 2 (Client Services), 2005 (E+F)                  COS3190 Nail Technology, 2005 (E+F)                  COS3200 Pedicuring, 2005 (E+F)                  COS3210 Nail Care (Client Services), 2005 (E+F)                  COS3220 Wigs &amp; Toupees, 2005 (E+F)                  COS3230 Hair Goods (Client Services), 2005 (E+F)                  COS3240 Theatrical Makeup 3 (Changing Images), 2005 (E+F)                  COS3250 Theatrical Makeup 4 (Client Services), 2005 (E+F)                  COS3260 Facial &amp; Body Adornment, 2005 (E+F)                  COS3270 Creative Cosmetology, 2005 (E+F)                  COS3290 Competition Cosmetology, 2005 (E+F)</p>
<p><b>Design Studies</b></p>	<p>DES2010 2-D Design Applications, 1997 (E)                  DES2020 3-D Design Applications, 1997 (E)                  DES2030 CAD Applications (Computer-aided Design), 1997 (E+F)                  DES2040 Drafting/Design Applications, 1997 (E)                  DES2050 Technical Drawing Applications, 1997 (E+F)                  DES3010 2-D Design Studio 1, 1997 (E)                  DES3020 2-D Design Studio 2, 1997 (E+F)                  DES3030 2-D Design Studio 3, 1997 (E+F)                  DES3040 3-D Design Studio 1, 1997 (E)                  DES3050 3-D Design Studio 2, 1997 (E)                  DES3060 3-D Design Studio 3, 1997 (E)                  DES3070 Living Environment Studio 1, 1997 (E)                  DES3080 Living Environment Studio 2, 1997 (E)                  DES3090 Living Environment Studio 3, 1997 (E)</p>

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	<p>DES3100 CAD Modelling Studio (Computer-aided Design), 1997 (E+F)                  DES3110 Drafting/Design Studio 1, 1997 (E+F)                  DES3120 Drafting/Design Studio 2, 1997 (E+F)                  DES3130 Drafting/Design Studio 3, 1997 (E+F)                  DES3140 Technical Drawing Studio 1, 1997 (E+F)                  DES3150 Technical Drawing Studio 2, 1997 (E+F)                  DES3160 Technical Drawing Studio 3, 1997 (E+F)                  DES3180 The Design Profession, 1997 (E)                  DES3190 Portfolio Presentation, 1997 (E)</p>
<b>Electro-Technologies</b>	<p>ELT1060 Digital Technology 1, 1997 (F)                  ELT1100 Electronic Communication, 1997 (F)                  ELT2060 Digital Technology 2, 2000 (F)                  ELT2070 Computer Technology, 2000 (F)                  ELT2100 Radio Communication, 2000 (F)                  ELT2310 Network Structures, 2004 (F)                  ELT2320 Network Media &amp; Devices, 2004 (F)                  ELT2330 OSI Model (Open System Interconnection), 2004 (F)                  ELT2340 Network Protocols, 2004 (F)                  ELT2350 Local Area Networks, 2004 (F)                  ELT3060 Digital Technology 3, 1997 (F)                  ELT3070 Digital Applications, 1997 (F)                  ELT3080 Microprocessors, 2005 (F)                  ELT3090 Microprocessor Interface, 2000 (F)                  ELT3100 Analog Communication 3, 1997 (F)                  ELT3130 Data/Telemetry Systems, 2000 (F)                  ELT3310 Network Operating Systems, 2004 (F)                  ELT3320 Routing Fundamentals, 2004 (F)                  ELT3330 Wide Area Networks, 2004 (F)                  ELT3340 Internet Processes, 2004 (F)                  ELT3350 Network Management, 2004 (F)</p>
<b>Energy and Mines</b>	<p>ENM1010 Overview Alberta Geology, 1997 (E+F)                  ENM1020 Nonrenewable Resources, 1997 (E+F)                  ENM1050 Renewable Resources, 1997 (E+F)                  ENM1060 Consumer Products/Services, 1997 (E+F)                  ENM1090 Fundamentals of Recycling, 1997 (E+F)                  ENM1100 Conservation Challenge, 1997 (E+F)                  ENM2010 Managing Alberta's Resources, 1997 (E+F)                  ENM2020 Conventional Oil/Gas 1 (Resource Exploration), 1997 (E+F)                  ENM2030 Oil Sands/Heavy Oil/Coal 1 (Resource Exploration), 1997 (E+F)                  ENM2040 Metals/Nonmetals 1 (Resource Exploration), 1997 (E+F)                  ENM2050 Renewable Energy Technology, 1997 (E+F)                  ENM2060 Refining Hydrocarbons, 1997 (E+F)                  ENM2070 Refining Rocks &amp; Minerals, 1997 (E+F)                  ENM2080 Supply &amp; Distribution, 1997 (F)                  ENM2090 Energy Designs/Systems 1 (Basic Principles), 1997 (E+F)                  ENM2100 Environmental Safety, 1997 (E+F)                  ENM3010 Energy &amp; The Environment, 1997 (E+F)                  ENM3020 Conventional Oil/Gas 2 (Recovery &amp; Production), 1997 (E+F)                  ENM3030 Oil Sands/Heavy Oil/Coal 2 (Recovery &amp; Production), 1997 (E+F)                  ENM3040 Metals/Nonmetals 2 (Recovery &amp; Production), 1997 (E+F)                  ENM3050 Sustainable Energy (The Power &amp; Potential), 1997 (E+F)                  ENM3060 Petrochemicals, 1997 (E+F)                  ENM3070 Industrial Materials (Primary Manufacturing), 1997 (E+F)                  ENM3080 Market Basics &amp; Trends, 1997 (F)                  ENM3090 Energy Designs/Systems 2 (Practical Applications) (E+F), 1997                  ENM3100 Integrated Resource Management (Balancing Needs), 1997 (E+F)</p>
<b>Fashion Studies</b>	<p>FAS1040 Fashion Basics, 1997 (E)                  FAS1070 Creative Yarns/Textiles, 1997 (E)                  FAS2010 Fashion Dynamics, 1997 (E)                  FAS2020 Fashion Illustration 1, 1997 (E)                  FAS2070 Creative Construction, 1997 (E)                  FAS3010 Fashion Illustration 2, 1997 (E)</p>

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<b>Financial Management</b>	FIN2010 Taxation, 2000 (F) FIN2050 Financial Simulation, 1997 (F)
<b>Foods</b>	FOD2010 Food & Nutrition Basics, 1997 (E) FOD2020 Nutrition & the Athlete, 1997 (E) FOD2080 Vegetables/Fruits/Grains, 1997 (E) FOD3090 Basic Meat Cutting, 1997 (E+F) FOD3140 International Cuisine 2, 1997 (E)
<b>Forestry</b>	FOR1060 Measuring the Forest 1 (Measurement Skills), 1997 (E) FOR1090 Forest Ecology 1 (Ecosystem Dynamics), 1997 (E) FOR2120 Users in the Forest, 1997 (E) FOR3070 The Forest Marketplace, 1997 (F) FOR3120 Integrated Resource Management (Balancing Needs), 1997 (E)
<b>Information Processing</b>	INF1020 Keyboarding 1, 1999 (F) INF1040 Graphic Tools, 1999 (E+F) INF1080 Programming 1, 1999 (F) INF1210 Computer Science 1, 2002 (F) INF2010 Workstation Operations, 1999 (F) INF2030 Keyboarding 2, 2002 (F) INF2040 Keyboarding 3, 2002 (F) INF2060 Electronic Publishing 1, 1999 (E+F) INF2110 Tables/Forms, 1997 (F) INF2120 Software Integration 1, 1999 (F) INF2130 Multimedia Authoring 1, 1997 (E+F) INF2140 Process Control, 1999 (F) INF2150 Programming 2, 1997 (F) INF2160 Programming 3, 1997 (F) INF2170 Programming 4, 1997 (F) INF2180 Programming 5, 1997 (F) INF2190 Telecommunications 1, 1999 (F) INF2200 Information Highway 2, 1999 (E+F) INF2210 Computer Science 2, 2002 (F) INF2220 Object-oriented Programming 1, 2002 (F) INF3020 Local Area Networks, 1999 (F) INF3030 Keyboarding 4, 2002 (F) INF3040 Keyboarding 5, 2002 (F) INF3050 Keyboarding 6, 2002 (F) INF3070 Electronic Publishing 2, 1997 (E+F) INF3090 Software Integration 3, 1997 (F) INF3100 Specialization 1, 1997 (F) INF3110 Specialization 2, 1997 (F) INF3120 Software Integration 2, 1997 (F) INF3130 Multimedia Authoring 2, 1997 (E+F) INF3140 Expert Systems, 1997 (F) INF3150 Programming Application 1, 1999 (F) INF3160 Programming Application 2, 1997 (F) INF3170 Programming Application 3, 1997 (F) INF3180 Telecommunications 2, 1999 (F) INF3190 Information Highway 3, 1997 (E+F) INF3200 Internet Services, 1999 (E+F) INF3210 Computer Science 3, 2002 (F) INF3220 Object-oriented Programming 2, 2002 (F) INF3230 Dynamic Data Structures 1, 2002 (F) INF3240 Dynamic Data Structures 2, 2002 (F)
<b>Tourism Studies</b>	TOU1020 People & Places, 1997 (E+F) TOU2090 Tourism Interpretation 1, 1997 (E+F) TOU2100 Tourism Interpretation 2, 1997 (E+F) TOU3030 Food Service Operations, 1997 (E+F) TOU3050 Alternative Accommodation, 1997 (E+F) TOU3070 Reservations & Ticketing, 1997 (E+F) TOU3100 Attractions Operations, 1997 (E+F) TOU3110 Adventure & Ecotourism, 1997 (E+F)

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<b>Wildlife</b>	WLD1030 Outdoor Experiences 1 (Survival Skills), 1997 (E) WLD2030 Outdoor Experiences 2 (Wilderness Excursion), 1997 (E)
<b>FRENCH AS A SECOND LANGUAGE</b>	FSL2309 French as a Second Language 20, 1991
<b>MATHEMATICS</b>	Mathematics, Grade 3, 1997 (E+F) Mathematics, Grade 6, 1997 (E+F) Mathematics, Grade 9, 1997 (E+F) MAT1225 Mathematics 14, 2003 (E+F) MAT1041 Mathematics Preparation 10, 2002 (E+F) MAT1038 Applied Mathematics 10, 2002 (E+F) MAT1040 Applied Mathematics 10B, 2002 (E+F) MAT1037 Pure Mathematics 10, 2002 (E+F) MAT1039 Pure Mathematics 10B, 2002 (E+F)

## Withdrawn Effective August 31, 2009

<b>CAREER AND TECHNOLOGY STUDIES</b>	
<b>Agriculture</b>	AGR1060 Consumer Products & Services, 1997 (E) AGR1090 Market Fundamentals, 1997 (E) AGR2090 Marketing 1, 1997 (E) AGR3090 Marketing 2, 1997 (E)
<b>Construction</b>	CON2040 Framing Systems 1, 2005 (E) CON3100 Commercial Structures, 1997 (E)
<b>Electro-Technologies</b>	ELT1060 Digital Technology 1, 1997 (E) ELT1100 Electronic Communication, 1997 (E) ELT2060 Digital Technology 2, 2000 (E) ELT2070 Computer Technology, 2000 (E) ELT2100 Radio Communication, 2000 (E) ELT2310 Network Structures, 2004 (E) ELT2320 Network Media & Devices, 2004 (E) ELT2330 OSI Model (Open System Interconnection), 2004 (E) ELT2340 Network Protocols, 2004 (E) ELT2350 Local Area Networks, 2004 (E) ELT3060 Digital Technology 3, 1997 (E) ELT3070 Digital Applications, 1997 (E) ELT3080 Microprocessors, 2005 (E) ELT3090 Microprocessor Interface, 2000 (E) ELT3100 Analog Communication 3, 1997 (E) ELT3130 Data/Telemetry Systems, 2000 (E) ELT3310 Network Operating Systems, 2004 (E) ELT3320 Routing Fundamentals, 2004 (E) ELT3330 Wide Area Networks, 2004 (E) ELT3340 Internet Processes, 2004 (E) ELT3350 Network Management, 2004 (E)
<b>Energy and Mines</b>	ENM2080 Supply & Distribution, 1997 (E) ENM3080 Market Basics & Trends, 1997 (E)
<b>Financial Management</b>	FIN2010 Taxation, 2000 (E) FIN2050 Financial Simulation, 1997 (E)
<b>Forestry</b>	FOR3070 The Forest Marketplace, 1997 (E)
<b>Information Processing</b>	INF1020 Keyboarding 1, 1999 (E) INF1080 Programming 1, 1999 (E) INF1210 Computer Science 1, 2002 (E) INF2010 Workstation Operations, 1999 (E) INF2030 Keyboarding 2, 2002 (E) INF2040 Keyboarding 3, 2002 (E) INF2110 Tables/Forms, 1997 (E) INF2120 Software Integration 1, 1999 (E)

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	INF2140 Process Control, 1999 (E) INF2150 Programming 2, 1997 (E) INF2160 Programming 3, 1997 (E) INF2170 Programming 4, 1997 (E) INF2180 Programming 5, 1997 (E) INF2190 Telecommunications 1, 1999 (E) INF2210 Computer Science 2, 2002 (E) INF2220 Object-oriented Programming 1, 2002 (E) INF3020 Local Area Networks, 1999 (E) INF3030 Keyboarding 4, 2002 (E) INF3040 Keyboarding 5, 2002 (E) INF3050 Keyboarding 6, 2002 (E) INF3090 Software Integration 3, 1997 (E) INF3100 Specialization 1, 1997 (E) INF3110 Specialization 2, 1997 (E) INF3120 Software Integration 2, 1997 (E) INF3140 Expert Systems, 1997 (E) INF3150 Programming Application 1, 1999 (E) INF3160 Programming Application 2, 1997 (E) INF3170 Programming Application 3, 1997 (E) INF3180 Telecommunications 2, 1999 (E) INF3210 Computer Science 3, 2002 (E) INF3220 Object-oriented Programming 2, 2002 (E) INF3230 Dynamic Data Structures 1, 2002 (E) INF3240 Dynamic Data Structures 2, 2002 (E)
<b>FRENCH AS A SECOND LANGUAGE</b>	FSL1309 French as a Second Language 10, 1991
<b>INTEGRATED OCCUPATIONAL PROGRAM</b>	Occupational IOP3801 Agricultural Production 36, 1992 IOP3877 Fashion and Fabric Services 36, 1992 IOP3941 Natural Resource Services 36, 1992
<b>MATHEMATICS</b>	Mathematics, Grade 2, 1997 Mathematics, Grade 5, 1997 Mathematics, Grade 8, 1996
<b>SOCIAL STUDIES</b>	Social Studies, Grade 6, 1990 Social Studies, Grade 9, 1989 SST3150 Social Studies 30, 1990 SST3151 Social Studies 33, 1990

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