

# APPENDICES

## Appendix 1: Provincially Authorized Senior High School Courses and Course Codes

Courses within each category are listed in the sequential numerical order of the course codes. Prerequisite courses are indicated by their linear arrangement across the page, or by the line symbol  $\perp$  used to indicate a prerequisite that leads to more than one course. Course credits are shown in parentheses.

Prerequisite courses are identified on the Alberta Education Extranet site and in the program of studies for each CTS strand.

Implementation years are noted in the table of contents of the [Program of Studies: Senior High Schools](#) and further documented in the footers of individual courses and programs of study.

**Note:** Newly approved courses and course codes will be shown with a colour-shaded background in the online version.

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 ...no credits 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 ...no credits 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.

Grade 10	Grade 11	Grade 12
<b>LANGUAGES</b>		
<b>Immersion and Bilingual Programs</b>		
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)
ULA1486 Ukrainian Language Arts 10 ... (5)	ULA2486 Ukrainian Language Arts 20 .. (5)	ULA3486 Ukrainian Language Arts 30..... (5)
SLA1507 Spanish Language Arts 10.....(5)	SLA2507 Spanish Language Arts 20..... (5)	SLA3507 Spanish Language Arts 30..... (5)
<b>FNMI Language and Culture Courses</b>		
BLC1369 Blackfoot Language and Culture 10..... (5)	BLC2369 Blackfoot Language and Culture 20..... (5)	BLC3369 Blackfoot Language and Culture 30..... (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)
<b>French as a Second Language courses</b>		
		FSL3309 French 30..... (5)
		↓ FSL3306 French 31A..... (5)
		↓ FSL3307 French 31B..... (5)
		↓ FSL3308 French 31C..... (5)
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)
<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)
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)
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)
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)
LAT1325 Latin 10.....(5)	LAT2325 Latin 20 ..... (5)	LAT3325 Latin 30 ..... (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)
ULC1089 Ukrainian Language and Culture 10-3Y ..... (5)	ULC2089 Ukrainian Language and Culture 20-3Y ..... (5)	ULC3089 Ukrainian Language and Culture 30-3Y..... (5)
ULC1091 Ukrainian Language and Culture 10-6Y ..... (5)	ULC2091 Ukrainian Language and Culture 20-6Y ..... (5)	ULC3091 Ukrainian Language and Culture 30-6Y..... (5)

Grade 10	Grade 11	Grade 12
<b>MATHEMATICS</b>		
MAT1791 Mathematics 10C ..... (5)	MAT2037 Pure Mathematics 20..... (5) MAT2039 Pure Mathematics 20B ..... (5) MAT2038 Applied Mathematics 20 ..... (5) MAT2040 Applied Mathematics 20B..... (5)	MAT3037 Pure Mathematics 30..... (5) MAT3038 Applied Mathematics 30..... (5) MAT3211 Mathematics 31 <sup>①</sup> ..... (5)
MAT1793 Mathematics 10-3 ..... (5)	MAT2225 Mathematics 24 ..... (5)	
<b>SCIENCE</b>		
SCN1270 Science 10 ..... (5)	SCN2231 Biology 20..... (5) SCN2796 Chemistry 20 ..... (5) SCN2797 Physics 20 ..... (5) SCN2270 Science 20 ..... (5)	SCN3230 Biology 30..... (5) SCN3796 Chemistry 30..... (5) SCN3797 Physics 30 ..... (5) SCN3270 Science 30..... (5)
SCN1288 Science 14 ..... (5)	SCN2288 Science 24 ..... (5)	
<b>SOCIAL STUDIES</b>		
SST1771 Social Studies 10-1..... (5) SST1772 Social Studies 10-2..... (5)	SST2771 Social Studies 20-1 ..... (5) SST2772 Social Studies 20-2..... (5)	SST3771 Social Studies 30-1..... (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 <sup>②</sup> ..... (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) FNA1405 Art 11 ..... (3) (4) (5) FNA1410 Drama 10 ..... (3) (5) FNA1420 Choral Music 10 ..... (3) (5) FNA1424 General Music 10 ..... (3) (5) FNA1425 Instrumental Music 10..... (3) (5)	FNA2400 Art 20 ..... (3) (4) (5) FNA2405 Art 21 ..... (3) (4) (5) FNA2410 Drama 20 ..... (3) (5) FNA2420 Choral Music 20 ..... (3) (5) FNA2424 General Music 20 ..... (3) (5) FNA2425 Instrumental Music 20 ..... (3) (5)	FNA3400 Art 30 ..... (5) FNA3405 Art 31 ..... (5) FNA3410 Drama 30 ..... (5) FNA3420 Choral Music 30 ..... (5) FNA3424 General Music 30 ..... (3) (5) FNA3425 Instrumental Music 30 ..... (5)

① Pure Mathematics 30 is a prerequisite for Mathematics 31; however, Pure Mathematics 30 may be taken as a corequisite for Mathematics 31

② The waiver of prerequisite provision does not apply to Physical Education 10.

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 <sup>①</sup>	OTH2998 Work Experience 25 <sup>①</sup>	OTH3998 Work Experience 35 <sup>①</sup>
OTH1999 Special Projects 10 <sup>②</sup>	OTH2999 Special Projects 20 <sup>②</sup>	OTH3999 Special Projects 30 <sup>②</sup>

① Each course, at each level, may be offered for 3, 4, 5, 6, 7, 8, 9 or 10 credits. Beginning in 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<sup>1</sup></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</b>		
OTH9900 Cattle Care and Production 33..... (6)	OTH9901 Calving and Herd Health 33..... (5)	OTH9902 Beef Support Systems 33.....(5)
<b>Dairy Production</b>		
OTH9903 Animal Husbandry and Health 33 ..... (6)	OTH9904 Dairy Operations 33..... (5)	OTH9905 Dairy Equipment Operation and Service 33.....(5)
<b>Feedlot Beef Production</b>		
OTH9906 Handling Feedlot Cattle 33 ..... (6)	OTH9907 Feedlot Cattle Care and Feeding 33 ..... (5)	OTH9908 Feedlot Support Systems 33 .....(5)
<b>Field Crop Production</b>		
OTH9909 Field Crop Care 33..... (6)	OTH9910 Land Preparation and Planting 33 ..... (5)	OTH9911 Harvesting Operations 33 .....(5)
<b>Irrigated Field Crop Production</b>		
OTH9912 Irrigation Processes and Practices 33..... (6)	OTH9913 Field and Crop Preparation 33..... (5)	OTH9914 Field Crop and Forage Harvesting 33 .....(5)
<b>Sheep Production</b>		
OTH9915 Sheep Production and Health 33 ..... (6)	OTH9916 Sheep Farm Operations and Equipment 33..... (5)	OTH9917 Sheep Handling and Facilities 33.....(5)
<b>Swine Production</b>		
OTH9918 Swine Behaviour and Production 33..... (6)	OTH9919 Swine Handling and Welfare 33 ..... (5)	OTH9920 Swine Health and Operations 33 .....(5)
<b>Bee Keeper Production</b>		
OTH9921 Bee Operation Preparation and Planning 33 ..... (6)	OTH9922 Bee Operation Production and Practices 33 ..... (5)	OTH9923 Bee Operation Support Systems 33 .....(5)
<b>Equine Technician</b>		
OTH9924 Equine Operations and Care 33 ..... (6)	OTH9925 Equine Processes and Practices 33 ..... (5)	OTH9926 Equine Support Systems 33.....(5)

<sup>1</sup> There is significant content overlap between Field Crop Production courses and Irrigated Field Crop Production courses. Students can, therefore, earn credits in either:

- Land Preparation and Planting 33 **OR** Field and Crop Preparation 33
- Harvesting Operations 33 **OR** Field Crop and Forage Harvesting 33.

Grade 10	Grade 11	Grade 12
<b>Knowledge and Employability</b>		
<b>Academics</b>		
KAE1780 English 10-4.....(5)	KAE2780 English 20-4.....(5)	KAE3780 English 30-4.....(5)
KAE1781 Social Studies 10-4.....(5)	KAE2781 Social Studies 20-4.....(5)❶	
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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❶ In French, IOP Social Studies 26 was withdrawn and replaced with Knowledge and Employability Social Studies 20-4, effective September 2010.

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>l) 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★**

**Agriculture** [Each course is worth 1 credit.] ❶—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

**Career Transitions** [Each course is worth 1 credit.] ❶

CTR1010	Job Preparation	CTR3010	Preparing for Change
CTR1210	Personal Safety (Management) ■	CTR3210	Safety Management Systems ■
CTR2010	Job Maintenance	CTR3310	Career Directions—Transitions
CTR2210	Workplace Safety (Practices) ■		
CTR2310	Career Directions—Expansion		

■ These courses will continue to be available for the 2010–2011 school year, and will be withdrawn effective August 31, 2011.

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

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

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

**CAREER AND TECHNOLOGY STUDIES★**

**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 and 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

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

## CAREER AND TECHNOLOGY STUDIES★

### Construction Technologies [Each course is worth 1 credit.] ①—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

### Carpenter Apprenticeship

CRA3400	Introduction to Work Site Safety	CRA3430	Construction Machines, Tools & Equipment
CRA3405	Basic Hand, Power Tools & Safety	CRA3435	Blueprint Interpretation
CRA3410	Construction Materials & Processes	CRA3440	CRA Practicum Course A
CRA3415	Site Preparation & Floor Systems	CRA3445	CRA Practicum Course B
CRA3420	Foundations & Concrete Structures	CRA3450	CRA Practicum Course C
CRA3425	Blueprint Drawings & Sketching	CRA3455	CRA Practicum Course D

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## CAREER AND TECHNOLOGY STUDIES★

### Cosmetology [Each course is worth 1 credit.] ①—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

### Hairstylist

HSA3400	Hair & Scalp Care 1	HSA3540	Chemical Texturizing 3 – Heat Assisted
HSA3410	Hair & Scalp Care 2	HSA3550	Chemical Texturizing 4 – Designer
HSA3420	Hair & Scalp Care 3	HSA3555	Chemical Texturizing 5 – Client Services
HSA3425	Hair & Scalp Care 4 – Client Services	HSA3560	Hair Texturizing
HSA3430	Hair Styling 1	HSA3565	Hair Texturizing – Client Services
HSA3440	Hair Styling 2	HSA3570	Hair Colouring 1
HSA3445	Hair Styling 3 – Client Services	HSA3580	Hair Colouring 2 – Oxidative
HSA3450	Haircutting 1	HSA3585	Hair Colouring 3 – Client Services
HSA3455	Haircutting 2 – Client Services	HSA3590	Hair Colouring 4 – Decolourization
HSA3460	Haircutting 3 – Advanced Techniques	HSA3595	Hair Colouring 5 – Decolourization Client Services
HSA3465	Haircutting 4 – Advanced Techniques Client Services	HSA3600	Hair Colouring 6 – Colour Correction
HSA3470	Haircutting 5 – Creative Services	HSA3605	Hair Colouring 7 – Advanced Client Services 1
HSA3475	Haircutting 6 – Creative Client Services	HSA3615	Hair Colouring 8 – Advanced Client Services 2
HSA3485	Haircutting 7 – Current Trends Client Services	HSA3620	Hair Goods & Extensions
HSA3495	Haircutting 8 – Male Client Services	HSA3625	Hair Goods & Extensions – Client Services
HSA3505	Hair Care & Cutting 1 – Client Services	HSA3630	Historical Cosmetology
HSA3515	Hair Care & Cutting 2 – Client Services	HSA3640	Creative Cosmetology
HSA3520	Chemical Texturizing 1	HSA3650	Competition Cosmetology
HSA3530	Chemical Texturizing 2 – Cold Waving		

### Design Studies [Each course is worth 1 credit.] ①—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		

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## CAREER AND TECHNOLOGY STUDIES★

### 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		

### 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		

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**CAREER AND TECHNOLOGY STUDIES★**

**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		

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**CAREER AND TECHNOLOGY STUDIES★****Fabrication Studies** [Each course is worth 1 credit.] ①—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		

Welder Apprenticeship

WDA3400	Fabrication Orientation & Safety	WDA3435	Shielded Metal Arc Welding – Part 2
WDA3405	Fabrication Tools & Weld Faults	WDA3440	Shop/Lab Practices for GMAW, FCAW & SAW
WDA3410	Oxyfuel Welding	WDA3445	OAW Cutting Practical
WDA3415	Gas Metal Arc Welding	WDA3450	GMAW & FCAW Practical
WDA3420	Flux Cored Arc Welding & Submerged Arc Welding	WDA3455	SMAW Practical
WDA3425	Materials Handling	WDA3460	WDA Practicum Course A
WDA3430	Shielded Metal Arc Welding – Part 1		

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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		

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## CAREER AND TECHNOLOGY STUDIES★

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

FOD1010	Food Basics	FOD2180	Vegetables & Fruits
FOD1020	Contemporary Baking	FOD2190	Grains, Legumes, 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	<b>FOD3090</b>	<b>Butcher Shop</b>
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	FOD3910	FOD Project D
FOD2150	Food Safety & Sanitation	FOD3920	FOD Project E
FOD2160	Food Venture	FOD3950	FOD Advanced Practicum
FOD2170	International Cuisine		

### Cook Apprenticeship

CKA3400	Kitchen Orientation	CKA3465	Bakeshop – Food Service
CKA3405	Kitchen Orientation – Food Service	CKA3470	Yeast Products
CKA3410	Culinary Fundamentals	CKA3475	Yeast Products – Food Service
CKA3420	Breakfast Foods	CKA3480	Saucier 1
CKA3425	Breakfast – Food Service	CKA3490	Saucier 2
CKA3430	Entremetier	CKA3495	Saucier – Food Service
CKA3435	Entremetier – Food Service	CKA3500	Meat Cookery
CKA3440	Pantry – Salads & Sandwiches	CKA3515	Meat Cookery – Food Service
CKA3445	Pantry – Food Service	CKA3520	Poultry, Fish & Seafood
CKA3450	Bakeshop	CKA3525	Poultry, Fish & Seafood – Food Service

**Note:** Effective January 15, 2011, CKA3460: Bakeshop 2, CKA3510: Meat Cookery 2, CKA3540: Value-added Products, and CKA3555: Banquet Preparation – Food Service have been withdrawn. CKA3530: Butcher Shop has been renamed FOD3090: Butcher Shop.

### Forestry [Each course is worth 1 credit.] ①—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	Forestry 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		

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**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

**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		

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**CAREER AND TECHNOLOGY STUDIES★****Information Processing** [Each course is worth 1 credit.] ①—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		

**Legal Studies** [Each course is worth 1 credit.] ①—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

**Logistics** [Each course is worth 1 credit.] ①—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		

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

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**CAREER AND TECHNOLOGY STUDIES★**

**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 Lines	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		

Auto Service Technician Apprenticeship

ASA3400	Basic Tools & Materials	ASA3440	Braking Systems 2
ASA3405	Electrical Fundamentals	ASA3445	Braking Systems 3
ASA3410	Electrical Circuits & Diagnosis	ASA3450	Drivelines & Introductory Welding
ASA3415	Frames, Suspension & Steering Linkages	ASA3455	ASA Practicum Course A
ASA3420	Manual & Power Steering Systems	ASA3460	ASA Practicum Course B
ASA3425	Steering Angles, Steering Columns & Restraint Systems	ASA3465	ASA Practicum Course C
ASA3430	Wheel Alignment Procedures	ASA3470	ASA Practicum Course D
ASA3435	Braking Systems 1		

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### CAREER AND TECHNOLOGY STUDIES★

#### Networking [Each course is worth 1 credit.] ①—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 and 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

#### Primary Resources [Each course is worth 1 credit.] ①—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.] ①—Health, Recreation & Human Services (HRH)

REC1020	Injury Management 1	REC3020	Injury Management 3
REC1030	Technical Foundations for Injury Management	REC3040	Training & Conditioning
REC1040	Foundations for Training 1	REC3050	Sport Psychology 3
REC1050	Sport Psychology 1	REC3060	Ever Active Kids Leadership
REC1910	REC Project A	REC3070	Fitness Instruction Leadership Principles
REC2010	Nutrition for Recreation Activities & Sport	REC3080	Resistance Training Leadership
REC2020	Injury Management 2	REC3090	Aquatic Fitness Training Leadership
REC2040	Foundations for Training 2	REC3100	Fitness Leadership for the Older Adult
REC2050	Sport Psychology 2	REC3110	Group Exercise Leadership
REC2060	Leadership in Recreation & Sport	REC3120	Coaching 2
REC2070	Ever Active Aging Leadership	REC3130	Officiating
REC2120	Coaching 1	REC3140	Sport & Society
REC2910	REC Project B	REC3910	REC Project D
REC2920	REC Project C	REC3920	REC Project E
REC2950	REC Intermediate Practicum	REC3950:	REC Advanced Practicum
REC3010	Human Movement		

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## CAREER AND TECHNOLOGY STUDIES★

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

TOU1010	The Tourism Sector	TOU2910	TOU Project B
TOU1030	Quality Guest Service	TOU2920	TOU Project C
TOU1040	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		

### Wildlife [Each course is worth 1 credit.] ①—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

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