



CTS Skills Canada Alberta Pathways

This document has been provided to help teachers and students prepare for Skills Canada Alberta regional and provincial competitions.

A pathway is a selection of courses providing students with opportunities to explore and acquire the attitudes, skills, knowledge, and values for future careers that are relevant to their interests. Pathways can help students work toward goals that may include university, college, apprenticeship training, or moving directly into the workforce.

Skills Canada Alberta competitions take place annually and provide opportunities for students to participate in competitions related to trade and technology-based careers. Schools may encourage and support student participation at the school, city, provincial, and/or national level.

This is a listing of specialized skill pathways that could help facilitate student success at Skills Canada Alberta competitions. For content that is dependent on the level of competition and the yearly content for each competition, visit <http://www.skillsalberta.com/> for additional information.

Pathway Menu

Select a skills Canada Alberta pathway listed below to see all the courses suggested to complete that particular pathway. Pathways are listed in alphabetical order.

[Business, Administration, Finance & Information Technology \(BIT\) Skills Canada Alberta Pathways](#)

[IT Network Systems Administration](#)
[IT Software Solutions for Business \(Level 1\)](#)
[IT Software Solutions for Business \(Level 2\)](#)
[Robotics](#)

[Health, Recreation & Human Services \(HRH\) Skills Canada Alberta Pathways](#)

[Aesthetics](#)
[Baking](#)
[Culinary Arts](#)
[Hairstyling – Intermediate](#)
[Hairstyling – Junior](#)
[Hairstyling – Senior](#)
[Job Search](#)
[Job Skill Demonstration](#)
[Public Speaking](#)
[Workplace Safety](#)

[Media, Design & Communication Arts \(MDC\) Skills Canada Alberta Pathways](#)

[2D Computer Animation](#)
[3D Computer Animation](#)
[Architectural Technology & Design](#)
[Fashion Technology](#)
[Graphic Design](#)
[Mechanical CADD](#)
[Photography](#)
[TV/Video Production](#)
[Website Development](#)

[Trades, Manufacturing & Transportation \(TMT\) Skills Canada Alberta Pathways](#)

[Auto Service](#)
[Autobody Repair](#)
[Cabinet Making](#)
[Carpentry](#)
[Electrical Installations](#)
[Joinery](#)
[Outdoor Power & Recreation Equipment](#)
[Precision Machining](#)
[Welding](#)

Skills Canada Alberta Pathways Descriptions

Business, Administration, Finance, & Information Technology (BIT) Skills Canada Alberta Pathways

IT Network Systems Administration

CTS courses recommended

NET2020: Workstation Technology & Operations	NET3050: Network Operating Systems
NET2030: Network Structures	NET3060: Wide Area Networks
NET2040: Network Media & Devices	NET3070: Routing Fundamentals
NET2050: Open System Interconnection	NET3080: Internet Processes
NET2060: Network Protocols	NET3090: Network Management
NET2070: Local Area Networks	NET3100: Network Media & Devices, Security

[Return to Top](#)

IT Software Solutions for Business (Level 1)

CTS courses recommended

INF1030: Word Processing 1 INF1060: Spreadsheet 1	INF1070: Digital Presentation
--	-------------------------------

[Return to Top](#)

IT Software Solutions for Business (Level 2)

CTS courses recommended

INF1030: Word Processing 1 INF1050: Database 1 INF1060: Spreadsheet 1 INF1070: Digital Presentation INF2050: Word Processing 2 INF2070: Database 2	INF2080: Spreadsheet 2 INF2090: Correspondence INF2100: Reports INF3060: Word Processing 3 INF3095: Productivity Software Integration
---	---

[Return to Top](#)

Robotics

CTS courses recommended

CSE1110: Structured Programming 1 CSE1120: Structured Programming 2 CSE1240: Robotics Programming 1 CSE2110: Procedural Programming 1 CSE2240: Robotics Programming 2 CSE3240: Robotics Programming 3 DES1020: The Design Process DES1040: 3-D Design 1 DES1050: CAD 1 DES1060: Technical Design & Drafting 1 DES2045: 3-D Design 2	DES2055: CAD 2 DES2075: Technical Drafting 2 DES3105: Engineering Design ELT1010: Electro-Assembly 1 ELT1130: Robotics 1 ELT1140: Robotics Applications ELT2140: Robotics 2 ELT2160: Robotics Sensor 1 ELT2170: Robotics Sensor 2 ELT3140: Motors ELT3150: Robotics 3
---	---

[Return to Top](#)

Health, Recreation, & Human Services (HRH) Skills Canada Alberta Pathways

Aesthetics

CTS courses recommended

COS1010: Personal & Professional Practices EST1020: Skin Care Practices EST1025: Skin Care Practices – Client Services EST1070: Manicuring 1 EST2030: Facials EST2035: Facials – Client Services EST2050: Make-up	EST2055: Make-up – Client Services EST2070: Manicuring 2 EST2075: Manicuring 3 – Client Services EST2090: Nail Art EST3070: Pedicuring EST3075: Manicuring & Pedicuring – Client Services
---	--

[Return to Top](#)

Baking

CTS courses recommended

FOD1010: Food Basics FOD1020: Contemporary Baking FOD2040: Cake & Pastry FOD2050: Bread Products FOD3030: Creative Baking	FOD3040: Yeast Products CKA3400: Kitchen Orientation CKA3410: Culinary Fundamentals CKA3450: Bakeshop CKA3470: Yeast Products
---	---

[Return to Top](#)

Culinary Arts

CTS courses recommended

FOD1010: Food Basics FOD2040: Cake & Pastry FOD2060: Milk Products & Eggs FOD2070: Soups & Sauces FOD2100: Basic Meat Cookery FOD2180: Vegetables & Fruits	FOD2190: Grains, Legumes, Pulses, Nuts, & Seeds FOD3030: Creative Baking FOD3050: Advanced Soups & Sauces FOD3060: Food Presentation FOD3080: Advanced Meat Cookery
---	---

[Return to Top](#)

Hairstyling – Intermediate

CTS courses recommended

COS1020: Long Hair Design 1 COS2010: Long Hair Design 2 HSA3400: Hair & Scalp Care 1 HSA3410: Hair & Scalp Care 2 HSA3450: Haircutting 1* HSA3505: Hair Care & Cutting 1 – Client Services*	HSA3625: Hair Goods & Extensions – Client Services* HSA3570: Hair Colouring 1* HSA3580: Hair Colouring 2 – Oxidative* HSA3590: Hair Colouring 4 – Decolourization* HSA3640: Creative Cosmetology* HSA3650: Competition Cosmetology*
--	--

*These **optional** courses are used to enhance the final design but are not mandatory.

[Return to Top](#)

Hairstyling – Junior

CTS courses recommended

COS1010: Personal & Professional Practices COS1020: Long Hair Design 1 COS2010: Long Hair Design 2 HSA3400: Hair & Scalp Care 1 HSA3410: Hair & Scalp Care 2	HSA3570: Hair Colouring 1* HSA3580: Hair Colouring 2 – Oxidative* HSA3590: Hair Colouring 4 – Decolourization* HSA3450: Haircutting 1*
--	---

*These **optional** courses are used to enhance the final design but are not mandatory.

[Return to Top](#)

Hairstyling – Senior

CTS courses recommended

COS2010: Long Hair Design 2	HSA3505: Hair Care & Cutting 1 – Client Services
HSA3410: Hair & Scalp Care 2	HSA3515: Hair Care & Cutting 2 – Client Services
HSA3430: Hair Styling 1	HSA3570: Hair Colouring 1
HSA3440: Hair Styling 2	HSA3580: Hair Colouring 2 – Oxidative
HSA3450: Haircutting 1	HSA3590: Hair Colouring 4 – Decolourization
HSA3455: Haircutting 2 – Client Services	HSA3640: Creative Cosmetology
HSA3460: Haircutting 3 – Advanced Techniques	HSA3650: Competition Cosmetology

[Return to Top](#)

Job Search

CTS courses recommended

CTR1010: Job Preparation	HSS3050: Becoming a Mentee
CTR2010: Job Maintenance	

Note: Additional courses are required based on the occupational area selected by Skills Canada Alberta each year.

[Return to Top](#)

Job Skill Demonstration

CTS courses recommended

HCS3000: Workplace Safety Systems	HSS1090: Speaking & Presenting
HCS3010: Workplace Safety Practices	

Note: Additional courses are required based on the occupational area selected by each competitor.

[Return to Top](#)

Public Speaking

CTS courses recommended

COM3005: Creative Writing	HSS1090: Speaking & Presenting
---------------------------	--------------------------------

[Return to Top](#)

Workplace Safety

CTS courses recommended

HCS2020: First Aid/CPR with AED	HCS3010: Workplace Safety Practices
HCS3000: Workplace Safety Systems	HSS1090: Speaking and Presenting

[Return to Top](#)

Media, Design, & Communication Arts (MDC) Skills Canada Alberta Pathways

2D Computer Animation

CTS courses recommended

COM1005: Visual Composition	COM2055: Web Design 2
COM1035: Graphics Tools	COM2145: Animation 2
COM1055: Web Design 1	COM3035: Raster Graphics 2
COM1145: Animation 1	COM3045: Vector Graphics 2
COM2035: Raster Graphics 1	COM3055: Rich Media – Basics
COM2045: Vector Graphics 1	COM3145: Animation 3

[Return to Top](#)

3D Computer Animation

CTS courses recommended

COM1005: Visual Composition	DES1010: Sketch, Draw & Model
COM1035: Graphics Tools	DES1020: The Design Process
COM1145: Animation 1	DES1040: 3-D Design 1
COM2035: Raster Graphics 1	DES1050: CAD 1
COM2045: Vector Graphics 1	DES2045: 3-D Design 2
COM2145: Animation 2	DES2055: CAD 2
COM3035: Raster Graphics 2	DES3045: 3-D Design 3
COM3045: Vector Graphics 2	DES3055: CAD 3
COM3145: Animation 3	DES3155: Modelling – Virtual

[Return to Top](#)

Architectural Technology and Design

CTS courses recommended

DES1010: Sketch, Draw & Model	DES2065: Technical Design 2
DES1020: The Design Process	DES2075: Technical Drafting 2 or DES2055: CAD 2
DES1030: 2-D Design 1	DES3035: 2-D Design 3
DES1040: 3-D Design 1	DES3045: 3-D Design 3
DES1050: CAD 1	DES3065: Technical Design 3
DES1060: Technical Design & Drafting 1	DES3075: Technical Drafting 3 or DES3055: CAD 3
DES2035: 2-D Design 2	DES3095: Architectural Design
DES2045: 3-D Design 2	

[Return to Top](#)

Fashion Technology

CTS courses recommended

FAS1000: Fashion Illustration 1	FAS2090: Specialty Fabrics 1
FAS1010: Fashion Dynamics	FAS2130: Construction Fundamentals 2
FAS1030: Sewing Fundamentals	FAS3000: Fashion Illustration 3
FAS1050: Redesign, Recycle & Restore	FAS3020: Computer-aided Pattern Design 2
FAS1060: Creating Accessories 1	FAS3030: Pattern Drafting 2
FAS1130: Construction Fundamentals 1	FAS3040: Contemporary Tailoring
FAS1190: Textile Arts 1	FAS3050: Flat Pattern 2
FAS2000: Fashion Illustration 2	FAS3070: Creators of Fashion
FAS2030: Computer-aided Pattern Design 1	FAS3090: Specialty Fabrics 2
FAS2050: Flat Pattern 1	FAS3130: Construction Fundamentals 3
FAS2060: Pattern Drafting 1	

[Return to Top](#)

Graphic Design

CTS courses recommended

COM1005: Visual Composition	COM2045: Vector Graphics 1
COM1025: Typography	COM2155: Design – Brand Identity
COM1035: Graphics Tools	COM2165: Printing 2
COM1165: Printing 1	COM3025: Electronic Layout & Publishing 2
COM2015: Media Impact	COM3035: Raster Graphics 2
COM2025: Electronic Layout & Publishing 1	COM3045: Vector Graphics 2
COM2035: Raster Graphics 1	

[Return to Top](#)

Mechanical CADD

CTS courses recommended

DES1010: Sketch, Draw & Model	DES2055: CAD 2
DES1020: The Design Process	DES2065: Technical Design 2
DES1030: 2-D Design 1 or DES1040: 3-D Design 1	DES3035: 2-D Design 3 or DES3045: 3-D Design 3
DES1050: CAD 1	DES3055: CAD 3
DES1060: Technical Design & Drafting 1	DES3065: Technical Design 3
DES2035: 2-D Design 2 or DES2045: 3-D Design 2	

[Return to Top](#)

Photography

CTS courses recommended

COM1005: Visual Composition	COM2205: Photography – Composition
COM1205: Photography – Introduction	COM2215: Photography – Communication
COM1215: Photography – Exposure	COM2235: Photography – Lenses
COM1275: Photography – Digital Processing 1	COM3215: Photography – Photojournalism

[Return to Top](#)

TV/Video Production

CTS courses recommended

COM1005: Visual Composition	COM3105: AV Preproduction 2
COM1105: Audio/Video	COM3115: AV Production 2
COM2105: AV Preproduction 1	COM3125: AV Postproduction 2
COM2115: AV Production 1	COM3135: Audio Techniques
COM2125: AV Postproduction 1	COM3165: AV Broadcasting
COM3005: Creative Writing	

[Return to Top](#)

Website Development

CTS courses recommended

COM1005: Visual Composition	CSE1110: Structured Programming 1
COM1055: Web Design 1	CSE1120: Structured Programming 2
COM2035: Raster Graphics 1	CSE1210: Client-side Scripting 1
COM2045: Vector Graphics 1	CSE1220: Client-side Scripting 2
COM2055: Web Design 2	CSE2110: Procedural Programming 1
COM3035: Raster Graphics 2	CSE2120: Data Structures 1
COM3045: Vector Graphics 2	CSE2210: Client-side Scripting 3
COM3055: Rich Media – Basics	CSE3210: Server-side Scripting 1
COM3065: Rich Media – Programming	INF1050: Database 1
COM3075: Cascading Style Sheets	INF1070: Digital Presentation

[Return to Top](#)

Trades, Manufacturing, & Transportation (TMT) Skills Canada Alberta Pathways

Auto Service

CTS courses recommended

MEC1040: Engine Fundamentals	MEC2150: Suspension Systems
MEC1090: Electrical Fundamentals	MEC2160: Steering Systems
MEC2030: Lubrication & Cooling	MEC3030: Engine Diagnosis
MEC2040: Fuel & Exhaust Systems	MEC3040: Engine Tune-up
MEC2060: Ignition Systems	MEC3060: Engine Reconditioning – Head
MEC2070: Emission Controls	MEC3070: Engine Reconditioning – Block
MEC2090: Electrical Components	MEC3090: Computer Systems
MEC2110: Braking Systems	MEC3130: Automatic Transmissions
MEC2130: Drive Line	MEC3150: Wheel Alignment
MEC2140: Transmissions/Transaxles	

[Return to Top](#)

Autobody Repair

CTS courses recommended

MEC1160: Structures & Materials	MEC3160: Body Repair Estimation
MEC1170: Metal Forming & Finishing	MEC3170: Damage Analysis
MEC1190: Surface Preparation 1	MEC3180: Damage Repair 1
MEC2170: Metal Repair & Finishing	MEC3190: Damage Repair 2
MEC2190: Surface Preparation 2	MEC3200: Refinishing 2
MEC2200: Refinishing 1	MEC3210: Plastic & Fibreglass
MEC2210: Touch-up & Finishing	MEC3230: Refinishing 3
MEC2220: Interior Repairs	

[Return to Top](#)

Cabinet Making

CTS courses recommended

CON1010: Construction Tools & Materials	CON2130: Furniture-Box Construction
CON1120: Product Management	CON2160: Cabinetmaking – Web & Face Frame
CON1130: Solid Stock Construction	CON2170: Cabinetmaking – Door & Drawer
CON1160: Manufactured Materials	

[Return to Top](#)

Carpentry

CTS courses recommended

CON1010: Construction Tools & Materials	CON2045: Framing Systems – Wall
CON1070: Building Construction	CON2050: Roof Structures 1
CON1120: Product Management	CRA3400: Introduction to Work Site Safety
CON1130: Solid Stock Construction	CRA3405: Basic Hand, Power Tools & Safety
CON2035: Framing Systems – Floor	CRA3435: Blueprint Interpretation

[Return to Top](#)

Electrical Installations

CTS courses recommended

ELT1030: Conversion & Distribution	ELT2130: Magnetic Control Devices
ELT2030: Branch Circuit Wiring	ELT3030: Power Systems & Services

[Return to Top](#)

Joinery

CTS courses recommended

CON1010: Construction Tools & Materials	CON2140: Furniture – Frame & Panel
CON1120: Product Management	CON3130: Furniture – Leg & Rail
CON1130: Solid Stock Construction	CON3140: Furniture – Surface Enhancement
CON2130: Furniture – Box Construction	

[Return to Top](#)

Outdoor Power and Recreation Equipment

CTS courses recommended

MEC1010: Modes & Mechanisms	MEC1130: Mechanical Systems
MEC1020: Vehicle Service & Care	MEC1150: Ride & Control Systems
MEC1040: Engine Fundamentals	MEC1190: Surface Preparation 1
MEC1090: Electrical Fundamentals	

[Return to Top](#)

Precision Machining

CTS courses recommended

FAB1130: Principles of Machining	FAB3130: Precision Turning 2
FAB2130: Precision Turning 1	FAB3140: Precision Milling 2
FAB2140: Precision Milling 1	

[Return to Top](#)

Welding

CTS courses recommended

FAB1010: Fabrication Tools & Materials	FAB2050: Arc Welding 1
FAB1040: Oxyacetylene Welding	FAB2060: Arc Welding 2
FAB1048: Semi-automated/Automated Welding	FAB2070: Gas Metal Arc Welding 1
FAB1050: Basic Electric Welding	FAB3048: Flux Cored Arc Welding 2
FAB2020: Print Reading	FAB3050: Arc Welding 3
FAB2030: Oxyfuel Welding	FAB3060: Arc Welding 4
FAB2040: Thermal Cutting	FAB3170: Gas Metal Arc Welding 2
FAB2048: Flux Cored Arc Welding 1	

[Return to Top](#)