

WILDLIFE

SECTION H: LINKAGES/TRANSITIONS

This section of the Guide has been designed to provide an overview of linkages and transitions of CTS modules with a number of organizations. The charts and information presented in this section will assist CTS students and teachers in understanding the potential application of CTS modules as students move into the workplace.

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LINKAGES/TRANSITIONS

LINKAGES

With Other CTS Strands

The Wildlife strand provides opportunities for students to develop competencies in one or more wildlife-related areas, including:

- recreation
- tourism
- resource harvest
- literature, art and film
- conservation and management
- research.

Each Wildlife-related area links with competencies that are developed in other CTS strands. To facilitate and strengthen these linkages, courses may be designed by combining Wildlife modules with modules from other CTS strands (e.g., Agriculture, Community Health, Legal Studies, Forestry, Tourism Studies).

Linkages of particular relevance to the design of CTS courses in Wildlife include:

Strand	Themes and/or Modules
Agriculture	Modules within the “Management and Conservation” theme can be linked with a range of wildlife topics and issues (e.g., the value of wildlife, wildlife management, issue analysis, negotiation and debate).
Career Transitions	Project modules provide opportunities for learning beyond the expectations of given Wildlife modules. Practicum modules enable students to work toward obtaining credentials in recognized in the workplace/community. Safety modules provide opportunities to address safety skills relevant to wildlife-related pursuits. Leadership modules have application in a range of group activities conducted in outdoor wilderness environments.

Strand	Themes and/or Modules
Community Health	Modules within the “Injury Prevention” theme link with a range of competencies developed within the Wildlife strand.
Forestry	Modules within the “Management and Conservation” theme can be linked with a range of wildlife topics and issues (e.g., the value of wildlife, wildlife management, issue analysis, negotiation and debate).
Legal Studies	Modules within the “Societal Contexts” theme (e.g., Environmental Law, Dispute Resolution, Landmark Decisions) can be contextualized within areas of wildlife management.
Tourism Studies	Modules within the “Attractions” theme can be linked with the study of spaces and species (e.g., outdoor adventure, ecotourism).

It is important to note that the project, practicum and safety modules in Career Transitions may be combined with Wildlife modules to provide opportunities for students to:

- acquire safety competencies and credentials
- develop specific workplace skills
- expand upon a topic in a module or theme
- complete an investigation, project or service.

Additional information regarding connections with other CTS strands is provided in this section (see “Connections with Other CTS Strands”).

Sample courses in Wildlife that include modules from other CTS strands are also provided in this section (see “Wildlife in Junior High” and “Wildlife in Senior High”).

With Other Secondary Programs

The Wildlife strand has many links with other core and complementary subject areas across the curriculum. For example, many of the modules in Wildlife link with the junior and senior high science programs, and provide opportunities for students to extend and apply related knowledge and skills in practical ways. Modules in the Wildlife strand also link with topics developed in the complementary junior high Environmental and Outdoor Education program.

Core and complementary course linkages of particular relevance to CTS courses in Wildlife include:

Course/ Program Area	Linkage/Connection
Language Arts	Application of the research process; development of reporting and oral/multimedia presentation skills within a range of wildlife contexts.
Mathematics	Application of number operations, variables and equations, measurement (i.e., length, area, volume), statistics and probability to wildlife populations and management practices.
Science	Use of observation and experimentation; knowledge and theory of relevant topics in biology, ecology and earth science; analysis of relationships among science, technology, society and the environment.
Social Studies	Knowledge of the impact of social, economic and environmental perspectives on spaces and species; issue analysis, negotiation, debate and environmental citizenship within a range of wildlife contexts.
Physical Education	Application of personal fitness and outdoor survival skills to excursions in a wilderness environment.
Fine Arts	Knowledge and awareness of the significance of wildlife in art, music and drama.

Course/ Program Area	Linkage/Connection
Environmental and Outdoor Education	Application of outdoor and personal/group skills to activities conducted in wilderness environments; application of environmental knowledge/skills to wildlife spaces, species and management practices.
CALM	Awareness of career opportunities and trends; career research and preparation.

Additional information regarding connections between Wildlife modules and other core and complementary subject areas is provided in this section (see “Forestry: Connections Across the Curriculum”).

A detailed correlation of the Wildlife strand to the Environmental and Outdoor Education program is also provided in this section (see “Wildlife: Correlations with Environmental and Outdoor Education 7, 8 and 9”).

TRANSITIONS

To the Workplace

Intermediate and advanced modules are designed to develop knowledge, skills and attitudes that provide transitions to occupations in wildlife-related areas. Some career sectors welcome individuals who have basic skills and are prepared to learn through further training from the employer.

The National Occupational Classification (NOC) chart in this section indicates occupations for which the Wildlife strand provides a foundation (see “Wildlife: Related Occupations”).

To Related Post-secondary Programs

Advanced level modules will assist students to make plans regarding further studies in wildlife at post-secondary levels. The Wildlife modules provide desirable background and skills for entry

into related programs at public and private colleges, technical institutes, universities and vocational colleges in Alberta.

A summary of related programs currently offered at post-secondary institutions in Alberta is provided in this section (see Wildlife: Summary of Related Post-Secondary Programs”).

A number of articulation agreements have been established with post-secondary institutions in Alberta. These agreements provide preferred entrance and/or advanced standing/credit for CTS students who have successfully completed designated modules. A current summary of articulation agreements in place that involve CTS modules is available through Alberta Education’s web site at <<http://ednet.edc.gov.ab.ca>>. For further information regarding particular articulation agreements, contact the post-secondary institution and/or review its respective calendar.

Teachers may wish to explore opportunities for linking courses in Wildlife with these and/or other credentialling programs. A partial list of credentialling opportunities relevant to CTS courses in Wildlife is provided in this section (see “Credentialling Opportunities in Wildlife”).

Further information regarding these and other credentialling opportunities available to CTS students is provided in the *Career & Technology Studies Manual for Administrators, Counsellors and Teachers* (see Appendix 14: Credentialling Opportunities in CTS), and also through Alberta Education’s web site at <<http://ednet.edc.gov.ab.ca>>.

CREDENTIALLING

Students may earn partial or complete credentials recognized in the workplace and/or post-secondary institutions by demonstrating specified competencies within the CTS curriculum. The Wildlife strand, in conjunction with modules from the Career Transitions strand, provides opportunities for students to develop competencies that link with a number of credentialling programs.

Of particular significance are credentials available through:

- First Aid certificate courses
- Alberta Environmental Protection and the WISE Foundation
- Alberta Tourism Education Council (ATEC) programs.

LINKAGES – Wildlife: Connections with Other CTS Strands

Wildlife Modules	Other CTS Strands																				
	Agriculture	Career Transitions	Communication Technology	Community Health	Construction Technologies	Cosmetology Studies	Design Studies	Energy and Mines	Electro-Technologies	Enterprise and Innovations	Fashion Studies	Financial Management	Foods	Fabrication Studies	Forestry	Legal Studies	Logistics	Information Processing	Management and Marketing	Mechanics	Tourism Studies
Theme: Social and Cultural Perspectives																					
WLD1010: What is Wildlife?																					
WLD1020: Natural History of Wildlife																					
WLD1030: Outdoor Experiences 1																					
WLD2020: Measuring the Value																					
WLD2030: Outdoor Experiences 2																					
WLD3020: Making a Difference																					
Theme: Technology and Applications																					
WLD2040: Wildlife Spaces & Species																					
WLD3040: Wildlife Research																					
Theme: Management and Conservation																					
WLD1050: Taking Responsibility																					
WLD1070: Hunting & Game Management 1																					
WLD1080: Angling & Fish Management																					
WLD2060: Interactions																					
WLD2070: Hunting & Game Management 2																					
WLD2090: Issues in Wildlife 1																					
WLD3050: Wildlife Management 1																					
WLD3060: Wildlife Management 2																					
WLD3090: Issues in Wildlife 2																					

Provides many direct links with competencies in this strand. Students will reinforce, extend and apply a substantial number of knowledge and/or skill components in practical situations.



Provides some links with competencies developed in this strand, usually through the application of related technologies and/or processes.



LINKAGES – Wildlife in Junior High

Course Emphasis	Wildlife Modules	Community Health Modules	Forestry Modules	Tourism Studies Modules
Literature, Art and Film (3 modules)	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> What is Wildlife? <i>WLD1010</i> </div> <div style="border: 1px solid black; padding: 2px;"> Natural History of Wildlife <i>WLD1020</i> </div>			<div style="border: 1px solid black; padding: 2px; text-align: center;"> The Attractions Sector <i>TOU1070</i> </div>
Recreation (4 modules)	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> What is Wildlife? <i>WLD1010</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Outdoor Experiences 1 <i>WLD1030</i> </div> <div style="border: 1px solid black; padding: 2px;"> Outdoor Experiences 2 <i>WLD2030</i> </div>	<div style="border: 1px solid black; padding: 2px; text-align: center;"> First Aid/ CPR <i>CMH2120</i> </div>		
Resource Harvest (5 modules)	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> What Is Wildlife? <i>WLD1010</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Hunting & Game Management 1 <i>WLD1070</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Hunting & Game Management 2 <i>WLD2070</i> </div> <div style="border: 1px solid black; padding: 2px;"> Taking Responsibility <i>WLD1050</i> </div>	<div style="border: 1px solid black; padding: 2px; text-align: center;"> First Aid CPR <i>CMH2120</i> </div>		
Conservation and Management (6 modules)	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> What Is Wildlife? <i>WLD1010</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Wildlife Spaces & Species <i>WLD2040</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Taking Responsibility <i>WLD1050</i> </div> <div style="border: 1px solid black; padding: 2px;"> Issues in Wildlife 1 <i>WLD2090</i> </div>		<div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;"> Forest Regions of Canada <i>FOR1020</i> </div> <div style="border: 1px solid black; padding: 2px;"> Forests Forever 1 <i>FOR1100</i> </div>	

LINKAGES – *Wildlife in Senior High*

Course Emphasis	Wildlife Modules	Forestry Modules	Tourism Studies Modules	Career Transitions Modules
<p>Basic Wildlife Management (3 credits)</p> <p>Prerequisite: None</p>	<p>What Is Wildlife? <i>WLD1010</i></p> <p>Interactions <i>WLD2060</i></p>	<p>Making a Difference <i>FOR2010</i></p>		
<p>Advanced Wildlife Management (5 credits)</p> <p>Prerequisite: Basic Wildlife Management</p>	<p>Wildlife Research <i>WLD3040</i></p> <p>Wildlife Management 1 <i>WLD3050</i></p> <p>Wildlife Management 2 <i>WLD3060</i></p>	<p>Managing Alberta Forests <i>FOR2030</i></p>		<p>Project 2A <i>CTR2110</i></p>
<p>Recreation and Tourism (5 credits)</p> <p>Prerequisites: Outdoor Experiences 1</p>	<p>Wildlife Spaces & Species <i>WLD2040</i></p> <p>Outdoor Experiences 2 <i>WLD2030</i></p> <p>Making a Difference <i>WLD3020</i></p>		<p>Adventure & Ecotourism <i>TOU3110</i></p>	<p>Workplace Safety <i>CTR2210</i></p>
<p>Environmental Stewardship (3 credits)</p> <p>Prerequisite: Issues in Wildlife 1</p>	<p>Measuring the Value <i>WLD2020</i></p> <p>Issues in Wildlife 2 <i>WLD3090</i></p>			<p>Project 2A <i>CTR2110</i></p>

LINKAGES – Wildlife: Connections Across the Curriculum

Wildlife Modules	Across the Curriculum																		
	Junior High								Senior High										
	Language Arts	Social Studies	Mathematics	Science	Health & PLS	Physical Education	Fine Arts	English	Social Studies	Mathematics	Science (General)	Biology	Chemistry	Physics	CALM	Physical Education	Fine Arts	Social Sciences	Second Language
Theme: Social and Cultural Perspectives																			
WLD1010: What is Wildlife?	■	■	■	■	■			■	■	■	■	■	■			■			
WLD1020: Natural History of Wildlife	■	■	■	■				■	■	■	■	■	■						
WLD1030: Outdoor Experiences 1				■		■		■	■	■						■			
WLD2020: Measuring the Value	■	■	■	■				■	■	■	■	■					■		
WLD2030: Outdoor Experiences 2	■	■	■	■		■		■	■	■						■	■		
WLD3020: Making a Difference	■	■	■	■				■	■	■	■	■					■		
Theme: Technology and Applications																			
WLD2040: Wildlife Spaces & Species	■	■		■				■	■	■	■	■							
WLD3040: Wildlife Research	■	■		■				■	■	■	■	■			■				
Theme: Management and Conservation																			
WLD1050: Taking Responsibility	■	■	■	■				■	■	■	■	■	■			■	■	■	
WLD1070: Hunting & Game Management 1	■	■	■	■		■		■	■	■	■	■	■			■	■	■	
WLD1080: Angling & Fish Management	■	■	■	■		■		■	■	■	■	■	■			■	■	■	
WLD2060: Interactions	■	■	■	■				■	■	■	■	■	■			■	■	■	
WLD2070: Hunting & Game Management 2	■	■	■	■		■		■	■	■	■	■	■			■	■	■	
WLD2090: Issues in Wildlife 1	■	■	■	■				■	■	■	■	■	■						
WLD3050: Wildlife Management 1	■	■	■	■				■	■	■	■	■	■			■	■	■	
WLD3060: Wildlife Management 2	■	■	■	■				■	■	■	■	■	■			■	■	■	
WLD3090: Issues in Wildlife 2	■	■	■	■				■	■	■	■	■	■			■	■	■	

Provides many direct links with course content. Students will reinforce, extend and apply a substantial number of knowledge and skill components in practical contexts.



Provides some links with competencies developed in this strand, usually through the application of related technologies and/or processes.



LINKAGES – Wildlife: Correlations with Environmental and Outdoor Education 7, 8 and 9 ★

Modules: CTS Wildlife

Topics / Themes: Environmental and Outdoor Education	What is Wildlife?	Natural History of Wildlife	Outdoor Experiences 1	Taking Responsibility	Hunting & Game Management 1	Angling & Fish Management	Measuring the Value	Outdoor Experiences 2	Wildlife Spaces & Species	Interactions	Hunting & Game Management 2	Issues in Wildlife 1	Making a Difference	Wildlife Research	Wildlife Management 1	Wildlife Management 2	Issues in Wildlife 2
OUTDOOR CORE																	
Regard for self, others and the environment			X		X	X		X			X						
Trip preparation and safety			X		X	X		X			X						
Safe and comfortable outdoor living skills			X		X	X		X			X						
Applying information for safe route planning			X					X									
Environmentally responsible outdoor activities			X		X	X		X			X						
Physical fitness for outdoor activities					X						X						
PERSONAL AND GROUP DEVELOPMENT																	
Respect and appreciation for self and others	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Setting realistic goals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Personal communication skills	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Relationship of individuals to groups	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Group process skills	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ENVIRONMENTAL CORE																	
Diversity of environments and life forms	X	X		X			X		X								
Interactions within environments	X	X		X			X		X			X					X
Natural and human changes to the environment	X	X		X			X		X	X		X	X				X
Air, water and soil cycles	X			X			X										
The Sun as the primary energy source on Earth	X																
OUTDOOR EXPEDITIONS																	
Skill and judgment in outdoor expeditions			X		X	X		X			X						
Positive self-concept and regard for others			X		X	X		X			X						
Group problem solving and group living skills			X		X	X		X			X						
Regard for environments and responsible outdoor judgment			X		X	X		X			X						
ENVIRONMENTAL INVESTIGATIONS																	
Environmental investigation skills		X							X			X		X	X	X	X
Strategies for responding to environmental concerns				X			X		X	X		X	X		X	X	X
COMMITMENT TO ACTION																	
Outdoor recreation as part of healthy lifestyle			X					X									
Appreciation of environments through respectful use	X		X	X	X	X	X	X			X	X	X		X	X	X
Responsible use of local and global environments			X	X	X	X	X	X		X	X	X	X		X	X	X
Plans to make personal growth a lifelong process				X			X										

★September 1997: All practical arts courses replaced by Career and Technology Studies.

TRANSITIONS – *Wildlife: Related Occupations*

Information for this chart was obtained from the National Occupational Classification (NOC) descriptions.

Educational Requirements:

D: High School Education

B: College or Vocational Education

C: Apprenticeship

A: University

STRAND-RELATED OCCUPATIONS		EDUCATION REQUIREMENTS			
Occupation Profile	NOC#	D	C	B	A
Animal Health Technologist	3231			✓	
Biochemist	2112				✓
Biological Technician	2221				✓
Biologist and Related Scientist	2121				✓
Botanist	2121				✓
Chemist	2112				✓
Conservation and Fishery Officer	2224			✓	
Environmental Auditor	2263				✓
Environmental Education Specialist	4169				✓
Environmental Engineer	2131/2148				✓
Hazardous Waste Management Technician	2263			✓	
Hydrologist	2113				✓
Inspectors in Public and Environmental Health and Occupational Health and Safety	2263			✓	✓
Marine Biologist	2121				✓
Oceanographer	2113				✓
Park Warden/Park Ranger	2224			✓	
Pest Control Operator/Exterminator	7444		✓		
Pollution Control Technician	2211			✓	
Trappers and Hunters	8442	✓			
Veterinarian	3114				✓
Wildlife, Habitat and Fish Biologist	2121				✓

LINKAGES – Wildlife: Summary of Post-secondary Programs

	PUBLIC COLLEGES								APPRENTICESHIP TRADE	PRIVATE COLLEGES				TECH. INST.	Banff	UNIVERSITIES				VOCATIONAL COLLEGES				
	Grande Prairie Regional College	Grant MacEwan Community College	Keyano College	Lakeland College	Lethbridge Community College	Medicine Hat College	Mount Royal College	Olds College		Red Deer College	Augustana University College	Canadian Union College	Concordia College	King's University College, The	Northern Alberta Institute of Technology	Southern Alberta Institute of Technology	Banff Centre	Athabasca University	University of Alberta	University of Calgary	University of Lethbridge	AVC - Calgary	AVC - Edmonton	AVC - Lac La Biche
Biological Sciences (including degree programs in Biochemistry, Biology, Botany, Entomology, Genetics, Microbiology & Zoology)	1t2t	2t		1t		1t2t	2t	2t		B	B	B	B				B	BMP hD	BMP hD	BM				
Biological Sciences/Biomedical Engineering Technology (certificate & diploma programs with various specializations)								1t						D										
Environmental Science (various specializations in Conservation & Reclamation, Environmental Monitoring & Conservation Enforcement, Fish & Wildlife, Parks & Recreation, and Renewable Resource/Watershed Management)			1t	D	CD			CD			B2t	B	D		V		B	CM	B				C(3 4w)	
Environmental Technology/Water & Wastewater Technician						CD							C										C	
Forestry, Forest Science/Technology	1t			1t	1t	1t	1t			1t	1t		D				BMP hD		1t				C	
Forestry/Logging Operations																						C	VC	
Petroleum/Mineral Resource/Land Management							D							V	V									
Leisure, Tourism & Society/Recreation Administration / Leisure (degree programs with various specializations)				C		1t		2t		1t	1t						BM	B	BM					
Physical Education (degree programs with various specializations)	2t	1t		1t		2t	D1t	2t		B	2t	1t					BMP hD	BM	BM					
Recreation, Leadership & Management/Leisure Services (certificate and diploma programs with various specializations)					CD	D	D							D								C	C	

B	Bachelor's Degree	D	Diploma (2 years)	w	weeks
M	Master's Degree	V	Varies	m	months
Ph.D.	Doctoral Degree	1t	One-year transfer	y	years
C	Certificate (1 year or less)	2t	Two-year transfer		

*Information taken from "It's About Time: To Start Thinking About Your Future," Advanced Education and Career Development, 1995.

CREDENTIALLING – *Credentiailling Opportunities in Wildlife*

The following credentialling opportunities link with modules in the Wildlife strand. Further information (including current contacts) for these and other credentialling opportunities available to CTS students is available through Alberta Education’s web site at <<http://ednet.edc.gov.ab.ca>>.

Credential/ Certificate	Training/ Credentialling Agency	Related CTS Strands/Modules	Program Description
Alberta Conservation and Hunter Education Program	Alberta Environmental Protection (Natural Resources Service) and the WISE Foundation	WLD1070: Hunting & Game Management 1 WLD2070: Hunting & Game Management 2	A provincially based credentialling program that examines the role of regulated hunting in managing Alberta wildlife. Deals with social and scientific aspects of hunting, and develops awareness of personal responsibilities while hunting or during related outdoor activities. The program has an optional field component that develops outdoor safety and survival skills.
Alberta Fishing Education Program	Alberta Environmental Protection (Natural Resources Service) and the WISE Foundation	WLD1080: Angling & Fish Management	A provincially based credentialling program that examines the role of recreational fishing in managing Alberta’s fish resource. Deals with social and scientific aspects of fishing, and develops awareness of personal responsibilities while fishing or during related outdoor activities. The program has an optional field component that develops outdoor safety and survival skills.
Alberta Trapper Education Certificate	Alberta Trappers’ Association	WLD3050: Wildlife Management 1 WLD3060: Wildlife Management 2 CTR3040–3080: Practicum Modules	A provincially based credentialling program that examines the role of regulated trapping in wild fur management. Assists individuals to meet the requirements established by Alberta Environmental Protection for obtaining a Trapping Licence.
Bear Awareness and Avoidance: • Basic • Advanced	Alberta Safety Council	WLD1030: Outdoor Experiences 1 WLD2030: Outdoor Experiences 2 CTR3040–3080: Practicum Modules CTR2210: Workplace Safety	A safety awareness program that offer certification at two levels. Each course deals with species recognition and bear biology, bear behaviour, avoiding bear problems and bear deterrents. Certificates are issued upon successful completion of an examination.

CREDENTIALLING – *Credentialling Opportunities in Wildlife* (continued)

Credential/ Certificate	Training/ Credentialling Agency	Related CTS Strands/Modules	Program Description
First Aid in the Wilderness	St. John Ambulance	WLD1030: Outdoor Experiences 1 WLD2030: Outdoor Experiences 2 WLD1070: Hunting & Game Management 1 WLD2070: Hunting & Game Management 2 WLD1080: Angling & Fish Management CTR3040–3080: Practicum Modules CTR2210: Workplace Safety	A credentialling program designed for individuals who work, live or play in wilderness or remote areas. Deals with how to cope with emergencies and provide first aid in remote settings where medical services are not available. Certificates are issued upon successful completion of an examination.
Canadian Tourism Industry Certification: • Outdoor Guide • Freshwater Angling Guide • Hunting Guide	Alberta Tourism Education Council	WLD1030: Outdoor Experiences 1 WLD2030: Outdoor Experiences 2 CTR3040–3080: Practicum Modules	Industry-based certification programs that address standards established by the tourism industry. Certificates are awarded to individuals who demonstrate occupational standards through written and practical testing.
Canadian Firearms Safety Course	Alberta Justice (Chief Provincial Firearms Office)	WLD2070: Hunting & Game Management 2 CTR3040-3080: Practicum Modules	An entry-level credentialling program based on national standards for knowledge of firearms and firearms laws, and for safe firearm handling. Deals with all aspects of safe and responsible firearms ownership and use, but is not meant to teach marksmanship or shooting accuracy. Assists individuals to meet requirements for obtaining a Firearms Acquisition Certificate (FAC).