

## Course Parameters for Wildlife

### Facilities

Some courses in the Wildlife scope and sequence can be delivered in a typical classroom setting. Refer to Attachment 4: CTS without Labs in this appendix. Others require access to more specialized in-school and off-campus facilities, such as:

- outdoor environments; e.g., endangered spaces, forested areas, natural areas, protected areas, wetland areas
- a science laboratory
- controlled environments for providing plant and/or animal care
- observation and training sites sponsored by relevant government, industry and/or post-secondary agencies
- resource centres equipped with computer hardware/software and audio-visual material.

Also desirable, though not essential, are instructional facilities that have:

- water and sinks
- display and storage areas for specimens and artifacts
- whiteboards/bulletin boards
- fresh air and fume extraction
- an exterior exit
- telephone service
- coolers and/or refrigeration.

Courses that require access to facilities in addition to those present in a typical classroom setting are identified in the Course Parameters. For more information, see the corresponding course in Sections D, E and F of the *Guide to Standards and Implementation*.

### Equipment

An equipment list is provided in the Course Parameters chart. Though not exhaustive, the list identifies recommended and optional equipment for meeting the course outcomes.

Equipment for courses in Wildlife can be obtained through a combination of purchasing, borrowing, renting, improvising and constructing. When choosing a suitable option for obtaining equipment, give consideration to:

- adequacy of budgets for purchase
- capabilities regarding in-school maintenance and storage
- the logistics and cost of renting
- potential for loan from industry, government or post-secondary agencies
- joint purchases with other organizations in the community
- opportunities for improvising or constructing.

Teachers may find it desirable to develop a list of additional materials and supplies required for specific learning activities planned within each course.

### Safety Considerations

Facilities used to support a Wildlife program must ensure a safe learning/working environment. Students must be aware of federal, provincial and local regulations governing the tasks they perform, and adhere to appropriate personal and environmental health and safety procedures in courses that involve:

- the use of specialized hand/power equipment
- the handling and storage of hazardous materials
- outdoor trips and field-based investigations.

Students must understand immediate and potential hazards associated with the tasks they perform, and the possible impact of these hazards on self, others and the environment.

## **Instructional Qualifications**

Courses in Wildlife can be implemented by Alberta Certified Teachers who have interest in providing instruction in classroom, laboratory and/or outdoor environments. A background in science and/or natural resource management is an asset to those who provide instruction in Wildlife courses, particularly at the intermediate and advanced levels. Teachers may find it desirable to access sources of instructional support available from relevant government agencies; e.g., Alberta Environmental Protection, Parks Canada, professional associations and consultants, and related industry; e.g., agriculture, forestry, tourism.

To ensure compliance with safety and industry standards, some courses require that components of instruction be provided by a person(s) having additional credentials granted by industry, government or community organizations. Wildlife courses requiring additional instructor credentials are identified in the Course Parameters chart. For more information, see the corresponding course in Sections D, E and F of the *Guide to Standards and Implementation*.

## **Credentialing Opportunities**

Some courses within the Wildlife strand provide opportunities for students to earn either complete or partial credentials recognized by industry and/or post-secondary institutions. Courses that link with credentialing opportunities relevant to wildlife and the environmental sector are identified in the Course Parameters chart. For more information regarding the credential, requirement/qualification and credentialing agency, see the corresponding course in Sections D, E and F of the *Guide to Standards and Implementation*.

**Course Parameters**

**LEVEL**

- 1 – Introductory
- 2 – Intermediate
- 3 – Advanced

**THEME**

- A. Social and Cultural Perspectives
- B. Technology and Applications
- C. Management and Conservation

**EQUIPMENT**

- ✓ Recommended in order to meet course outcomes
- Optional in providing access to supportive learning environments

LEVEL	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3
THEME	A	A	A	C	C	C	A	A	B	C	C	C	A	B	C	C	C
INSTRUCTIONAL QUALIFICATIONS			*		*	*		*			*						
INSTRUCTIONAL FACILITIES			*		*	*		*			*			*			
CREDENTIALLING OPPORTUNITIES			*		*	*		*			*						
EQUIPMENT	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
	1010	1020	1030	1050	1070	1080	2020	2030	2040	2060	2070	2090	3020	3040	3050	3060	3090
Audio recorder	○	○							○								
Binoculars	○	○	○					○	○								
Camcorder	○	○							○								
Camera	○	○							○								
Camping gear (1)			✓					✓									
Compass			✓					✓									
Computers and software				✓			✓										
First aid supplies			✓					✓									
Map (2)			✓					✓	○								
Microscope	✓	✓							✓								

(1) Camping gear includes tent, campstove, sleeping bag, cooking utensils, lantern, knife, saw, sanitary supplies, personal grooming items.  
 (2) Maps include topographic, climatic, ecosystem and soil type.  
 \* Refer to specific 1-credit courses listed in Sections D, E and F of the corresponding *Guide to Standards and Implementation* for additional information.

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THEME	A	A	A	C	C	C	A	A	B	C	C	C	A	B	C	C	C
INSTRUCTIONAL QUALIFICATIONS			*		*	*		*			*						
INSTRUCTIONAL FACILITIES			*		*	*		*			*			*			
CREDENTIALLING OPPORTUNITIES			*		*	*		*			*						
EQUIPMENT	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
	1010	1020	1030	1050	1070	1080	2020	2030	2040	2060	2070	2090	3020	3040	3050	3060	3090
Outdoor gear (3)			✓					✓									
Personal safety equipment (4)			○					○									
Photos, aerial			✓					✓									
Riker (permanent display) mounts	✓	✓							✓								
Sampling tools (5)	✓	○							✓	✓							
Slides/specimens, plant and animal	✓	✓							✓								

(3) Outdoor gear includes bush clothing, backpack, outdoor boots, rain gear, canoe, snowshoes, cross-country skis, as required.

(4) Personal safety equipment includes hard hat, safety glasses, ear protectors, pressure and triangular bandages, as required.

(5) Sampling tools include spade, traps and dip nets, as required.

\* Refer to specific 1-credit courses listed in Sections D, E and F of the corresponding *Guide to Standards and Implementation* for additional information.