TOURISM & NATURAL RESOURCES

Fish and Wildlife Technician

DIPLOMA

- Two years
- September start
- Corner Brook Campus

COURSES

CODE	TITLE	Hrs/wk Cr	Le	La
Semester 1				
BL1120	Biology I	3	2	3
CM1400	Technical Report Writing I	3	3	0
EN2120	Environmental Citizenship	3	3	0
MA1100	Mathematics	5	4	2
MC1080	Introduction to Computers	2	2	0
SU1150	Field Navigation	3	2	3
GE1420	Physical Environments	3	2	3

*Admission into the appropriate Mathematics course will be decided by the grade in High School math.

EITHER

Students who received at least 70% in Level III Math 3200 or a pass in Math 3201 can be exempted from MA1100

OR

Students who received a combined average of 70% in 2204 and 3204, or a pass in both of 2205 and 3205 can be exempted from MA1100.

Students must apply for the exemption.

		Cr	Le	La
Semester 2				
CM1401	Technical Report Writing II	3	3	0
FR1330	Natural Resource Measurements I	3	2	3
BL1400	Fish and Wildlife Biology	4	3	3
EY2210	Silvics/Dendrology I	3	2	3
MA1670	Statistics	4	4	1
SU1550	Remote Sensing	3	2	3

		Cr	Le	La
Semester 3 (Intersession I)				
FT1410	Fish & Wildlife Field Camp	2 wks		
RM1400	Wildlife Techniques I	4	3	2
RM1500	Fisheries Techniques I	4	3	2
SU1400	Surveying	3	2	3

The Course and Lab hours per week are based on a 15 week semester. In intersession, the Course and Lab hours will be adjusted to reflect the shorter semester length. Refer to course outline.

		Cr	Le	La
Semester 4				
EY1200	Ecosystem Ecology	2	1	3
FT1430	Fish and Wildlife Camp II	1 wk		
HR2200	Human Relations	2	1	2
LW2210	Natural Resources Policy and Law	4	4	0
RM1401	Wildlife Techniques II	3	2	2
RM1501	Fisheries Techniques II	3	2	2
RM2200	Habitat Assessment	3	2	3
SU3210	Geographic Information Systems	2	1	3

		Cr	Le	La
Semester 5				
CS2620	Wilderness Survival	2	1	2
EY2510	Population Ecology	3	2	2
LW2211	Law Enforcement	4	3	2
MN1810	Integrated Resource Management	2	1	2
PR2660	Technical Project and Presentation	2	1	2
RM2420	Habitat Management	3	2	2
RM2410	Wildlife Techniques III	3	2	2
RM2500	Fisheries Techniques III	3	2	2

		Cr	Le	La
Semester 6				
OJ1301	On-the-Job Training	3 wks		

CERTIFICATIONS

In addition to the formal semester courses listed in the program of studies, students in the Fish and Wildlife Technician program are required to obtain certification in the following areas over the two-year period:

Canadian Firearm Safety Course / Hunter Education
Paddle Canada (Flatwater Canoeing Level A & B)
Coastal Navigation
Pleasure Craft Operators Card
Restricted Operators Certificate (Maritime) DSC Endorsement
Standard First Aid & CPR/AED
WHMIS/OHS
ATV Safety Training

With increasing emphasis on sustainable development, integrated resource policy and ecosystem based management across Canada and the world, technicians in the natural resources sector must have a foundation in matters related to biodiversity in general and fish and wildlife management issues in particular. The two-year Fish and Wildlife Technician program, which shares many subjects with the Forestry Resources Technician program, has been designed to enable students with a specific interest in fish and wildlife to participate in studies directed specifically towards their career goals. The program reflects the trend towards integrating a wide range of natural resources technology within government departments at Federal and Provincial levels. The requirement for the forest industry to consider wildlife in its management practices and the increased monitoring and management of freshwater and marine resources highlights the need for this program. The program provides a balance of field and classroom experiences that include a significant computer based data collection and analysis component.

OBJECTIVES

1. To provide students with the knowledge and skills that are required to actively participate in the solution of fish and wildlife management problems and challenges.
2. To provide the knowledge and attitudes that will enable students to identify forest ecosystem challenges and opportunities and to undertake such assessments, preventive measures and treatments as might be associated with fish and wildlife conservation and management.
3. To provide knowledge and experience with a wide range of field and office equipment and techniques associated with the assessment and analysis of fish and wildlife resources data.
4. To provide the foundation for continued learning experiences at the post graduate level.

EMPLOYMENT OPPORTUNITIES

Graduates of this program may obtain employment throughout Canada in a variety of fish and wildlife related fields: protection and enforcement, resource inventory and site classification, habitat protection and improvement, environmental impact assessment, parks and interpretation programs. Graduates are employed with governmental and private agencies in fields ranging from forestry technicians to fisheries observers.

PROGRAM TRANSFERABILITY

Many graduates have gone on to pursue studies with advanced standing at a number of Canadian universities. Students who have graduated from the Fish and Wildlife Technician program can apply for entry with advanced standing at a number of Bachelor of Science and post-diploma programs in Canada. Please refer to the Transfer Guide of the NL Council on Higher Education (www.edu.gov.nl.ca/council), or contact your intended university or college.

NOTE: Students should be aware that additional fees and expenses apply for most of these certifications and for field camps, tours and On-the-Job Training.

Students graduating from the Fish and Wildlife Technician program can complete the Forest Resources Technician program with one additional year. Interested students must begin their studies in the First Technical Intersession.

ENTRANCE REQUIREMENTS

Academic:

Eligibility for admission to the program requires the applicant to meet one of the following four academic criteria:

1. High School

High School Graduation Certificate with a 60% overall average in the following (or equivalent):

i. English (2 credits) (minimum 60%) from: 3201
ii. Mathematics (4 credits) chosen from:
Advanced: 2205, 3205 (50% minimum in each course)
OR
Academic: 2204 (50% minimum), 3204 (60% minimum)
iii. Science – (4 credits) two of which must be chosen from:
Biology: 3201
Physics: 3204
Chemistry: 3202
Earth Systems: 3209
Environmental Science 3205

2. Comprehensive Arts and Science (College Transition)

Comprehensive Arts and Science Certificate with the following courses:

i. Math : MA1040, MA1041
ii. Two Science courses chosen from two of the following three combinations:
a. Biology: BL1020, BL1021
b. Chemistry: CH1030, CH1031
c. Physics: PH1050, PH1051

Note: It is strongly recommended that CAS students who intend to enroll in the Fish and Wildlife, Forest Resources Technician, Natural Resources Technician or Northern Natural Resources Technician program complete BL1020 and BL1021. In addition, it is recommended that students who intend to enroll in the Environmental Technology program complete CH1030 and CH1031.

3. Adult Basic Education (ABE)

Adult Basic Education (Level III) Graduation with Degree and Technical Profile including the following courses (or equivalent):

i. English 3101A, 3101B, 3101C or 3102A, 3102B, 3102C
ii. Mathematics 1104A, 1104B, 1104C, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C
iii. Science from one of the following sections:
a. Biology 1101, 2101A, 2101B, 2101C, 3101A, 3101B, 3101C
b. Chemistry 1102, 2102A, 2102B, 2102C, 3102A, 3102B, 3102C
c. Physics 1104, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C

Applicants with Adult Basic Education (Level III) Graduation with a different Profile (and appropriate grades) may be eligible for admission to the program provided the appropriate selection of courses including those outlined above have been completed.

4. Mature Student Status

Applicants who do not meet the entrance requirements, are 19 years of age or older, and have been out of school for at least one year may be considered on an individual basis under the Mature Student Clause.

SPECIAL REQUIREMENTS

Because of the extensive field exposure incorporated in this program, the students are required to acquire the following equipment and clothing: compass, axe, snowshoes, rubber boots, hiking boots, chest wader, good quality rainwear, neoprene gloves and other clothing appropriate for outdoor work.