

Forest Resources Technician

The concept of proper management of forest lands using the principles of sustainable development and integrated resource management is rapidly being implemented across Canada. In Newfoundland and Labrador, as well as elsewhere, industry and government agencies are applying these principles to the management, protection and utilization of forest resources. This two-year technical program has been designed to provide graduates with the capacity of making a meaningful contribution to the expanded requirement for ecosystem based technology within this changing environment. The program places great emphasis on experiential field based activities.

OBJECTIVES

1. To provide students with the knowledge and skills that are required to actively participate in find solutions to forest 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 forest resource protection, management and utilization.
3. To provide knowledge and experience with a wide range of field and office equipment and techniques associated with the assessment and analysis of natural resources data.
4. To provide the foundation for continued learning experiences at the post-secondary level.

EMPLOYMENT OPPORTUNITIES

Graduates of this nationally accredited program may obtain employment throughout Canada in a variety of forestry related fields: protection and enforcement, forest inventory and site classification, logging and engineering, forest access road construction and maintenance, silviculture as well as parks, wildlife and environmental assessment. This program has an established reputation for supplying graduates to employers all across Canada.

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 Forest Resources Technician program can apply for entry with advanced standing in a number of Bachelor of Science, Forestry and post-diploma programs in Canada. Please refer to the NL Department of Education's transfer guide (www.cna.nl.ca/transfer), or contact your intended university or college.

ACCREDITATION AND RECOGNITION

To ensure the benefits of a consistently high standard of education, the College of the North Atlantic's Forest Resources Technician program is nationally accredited by the Canadian Technology Accreditation Board (CTAB).

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 or 3202
- 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 (CAS) Transition

Comprehensive Arts and Science (Transition) 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 student is required to acquire the following equipment and clothing: hard hat, compass, axe, snowshoes, logger boots, good quality rainwear, and other clothing appropriate for outdoor work.

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

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

DIPLOMA

- Two years
- September start
- Corner Brook Campus

COURSES

CODE	TITLE	Hrs/wk				
Semester 1				Cr	Le	La
BL1120	Biology I	3	2	3		
CM1400	Technical Report Writing I	3	3	0		
EN2120	Environmental Citizenship	3	3	0		
MA1100	Mathematics I	5	4	2		
MC1080	Introduction to Computers	2	2	0		
SU1150	Field Navigation	3	2	3		
SU1710	Forest Surveying	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 2004 and 3204, or a pass in both of 2205 and 3205 can be exempted from MA1100.

Students must apply for the exemption.

Semester 2				Cr	Le	La
CM1401	Technical Report Writing II	3	3	0		
EY2210	Silvics/Dendrology I	3	2	3		
FR1330	Natural Resource Measurements I	3	2	3		
FR1400	Wood Products	2	1	2		
MA1670	Statistics	4	4	1		
SU1550	Remote Sensing	3	2	3		
LW2210	Natural Resources Policy & Law	4	4	0		

Semester 3 (Intersession I)				Cr	Le	La
FR1230	Forest Fire Management	3	2	3		
FR2340	Forest Hydrology	3	2	3		
FT1400	Forestry Field Camp			2	wks	

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.

Semester 4				Cr	Le	La
EY2211	Silvics/Dendrology II	3	2	2		
FR1560	Timber Harvesting I	2	1	2		
FR1331	Natural Resource Measurements II	2	1	3		
FR2350	Entomology/Pathology	3	2	3		
FR2360	Silviculture	3	2	3		
FT1401	Forestry Camp/Tour			1	wk	
GE1300	Soil Fundamentals	3	2	3		
SU3210	Geographic Information Systems	2	1	3		

Semester 5				Cr	Le	La
FR1561	Timber Harvesting II	4	3	3		
FR2430	Wildlife Management	3	2	3		
HR2200	Human Relations	2	1	2		
LW2211	Law Enforcement	4	3	2		
MN1800	Integrated Resource Management	4	3	3		
PR2660	Technical Project & Presentation	2	1	2		

Semester 6 (Intersession II)				Cr	Le	La
OJ1300	On-the-Job Training			P/F	3	wks

CERTIFICATIONS

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

- ATV Safety Training
- Canadian Firearm Safety Course / Hunter Education
- Paddle Canada (Introduction to Lake Canoeing)
- Pleasure Craft Operators Card
- Scaling
- Standard First Aid & CPR/AED
- WHMIS/OHS