

## Community Home Building Curriculum

**Curriculum Stream:** *FOREST STEWARDSHIP*

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### Curriculum Stream Goal:

To provide trainees with the skills to identify trees, understand the forest's characteristics and plantings, to learn the local history, forest safety, and to learn traditional uses of the forest. The use of technology such as GIS mapping will also be implemented to support trainees.

### Module Learning Goal: [Theory hours \_\_\_\_ ] [Practical Hours \_\_\_\_ ]

Ten topics; Tree Identification, Forest Characteristics, Indigenous History on Your Land, Forest Flora and Fauna, Traditional Uses of Forests, Forest Sustainability Practices, Geographic Information System and Maps, Forest Management Practices, Forest Safety and Health, and Wilderness Survival.

**Specific Learning Objective(s): Include an estimate of theory and practical instructional hours for each Objective:**

Topic	Learning Objectives	Theory/ Practical	Hours
Tree Identification	Students will learn how to identify trees, through their bark textures, branches, and leaves. To identify their characteristics, and strengths to be used for construction.	Practical	1
Forest Characteristics	To learn of the biodiversity, ecosystem and variety of life that inhabit the forest, through the identification of local non-human lives, characteristics of the plants that reside in the area.	Theory/ Practical	1
Indigenous History on Your Land	To understand the original inhabitants of the land that they reside on, through their language, practices, and history.	Theory	1
Forest Flora and Fauna	To understand the local flora and fauna that reside in the region, and how to identify them.	Practical	1
Traditional Uses of Forests	To identify the traditional uses of the forest, through traditional plant uses for medicine and healing, and the traditional uses for construction.	Theory/ Practical	1

Forest Sustainability Practices	To gain insight on how to sustainably use the forest, through sustainable cutting practices, and harvesting practices.	Theory	1
Geographic Information System and Maps	Trainees will learn how to navigate GIS, how to read geologies, elevations, and surface geology in Manitoba.	Theory	1
Forest Management Practices	To gain an understanding of the core principles and supporting conditions of indigenous community forestry in the context of Manitoba, Canada, where indigenous and forestry issues are closely connected.	Theory	1
Forest Safety and Health	To understand what forest insects and diseases are, to understand what invasive insects and diseases are, and to develop a general knowledge of the local insects and diseases are. Trainees should learn what forest renewal is, which can be related to the <i>timber harvesting</i> curriculum.	Theory/ Practical	1
Wilderness Survival	Trainees will experience traditional ways of living through camping, learning survival skills, harvesting and preparing traditional foods, gathering natural medicines, and sharing the harvest.	Practical	2

**Key Point(s):** Include an estimate of theory and practical instructional hours for each Key Point:

Topic	Key Points	Theory/ Practical	Hours
Tree Identification	<ul style="list-style-type: none"> <li>Identify trees through their appearance</li> <li>Strength characteristics for construction</li> </ul>	Practical	1
Forest Characteristics	<ul style="list-style-type: none"> <li>Biodiversity and ecosystem understanding</li> </ul>	Theory/ Practical	1

	<ul style="list-style-type: none"> <li>• Non-human life that inhabit the area</li> </ul>		
Indigenous History on Your Land	<ul style="list-style-type: none"> <li>• Original inhabitants of the land you reside on</li> <li>• Language, practices, and construction</li> <li>• Colonialism</li> </ul>	Theory	1
Forest Flora and Fauna	<ul style="list-style-type: none"> <li>• Identify regional flora and fauna through their appearance</li> </ul>	Practical	1
Traditional Uses of Forests	<ul style="list-style-type: none"> <li>• Traditional plant uses for medicine</li> <li>• Indigenous construction</li> </ul>	Theory/ Practical	1
Forest Sustainability Practices	<ul style="list-style-type: none"> <li>• Cutting practices</li> <li>• Harvesting practices</li> <li>• Sustainable forest management</li> </ul>	Theory	1
Geographic Information System and Maps	<ul style="list-style-type: none"> <li>• Read GIS</li> <li>• Read legends</li> <li>• Locate bedrock geologies, elevations, and surface geology</li> <li>• Understand where/how to locate the research on the land</li> </ul>	Theory	1
Forest Management Practices	<ul style="list-style-type: none"> <li>• Importance of Indigenous-led</li> <li>• Policies</li> <li>• Benefits</li> <li>• Values</li> </ul>	Theory	1
Forest Safety and Health	<ul style="list-style-type: none"> <li>• Local invasive species</li> <li>• Local insects</li> <li>• Promote natural regeneration</li> <li>• Look at precedents such as the Brokenhead Wetlands Interpretive Trail</li> </ul>	Theory/ Practical	1
Wilderness Survival	Unsure at this point	Practical	2

**Evaluation:**

**Textbook(s): (Name, Publisher, Date, URL)**

### **Student Workbook(s): (Name, Publisher, Date, URL)**

Forest Stewardship Planning Workbook: An Ecosystem Approach to Managing Your Forestland, Washington State University Extension, 2006,  
[https://www.dnr.wa.gov/publications/fp\\_sflo\\_fs\\_planning\\_workbook.pdf?llupt](https://www.dnr.wa.gov/publications/fp_sflo_fs_planning_workbook.pdf?llupt)

### **Facilitator Guide(s): (Name, Publisher, Date, URL)**

### **Resources: (Name, Publisher, Date, URL)**

Trees of Manitoba, iNaturalist, <https://www.inaturalist.org/guides/8023>

*Plants Have So Much to Give Us, All We Have to Do is Ask* - Anishinaabe Botanical Teachings  
Mary Siisip Geniusz, University of Minnesota Press, 2015  
<https://www.jstor.org/stable/10.5749/j.ctt189tth4>

## **2. Forest Characteristics (Ecosystems and Cultural)**

Forestry Infographics  
<http://www.cif-ifc.org/forestry-infographics/>

## **3. Indigenous History on Your Land**

First Nations in Canada  
<https://www.rcaanc-cirnac.gc.ca/eng/1307460755710/1536862806124>

Key Moments in Indigenous History Timeline  
<http://education.historicacanada.ca/en/tools/495?c=18>

Indigenous History  
Includes resources: Treaties in Canada, Residential Schools in Canada, The War of 1812.  
<http://education.historicacanada.ca/en/collections/18>

## **4. Forest Flora and Fauna**

Flora and Fauna Resources: Inventory and Biodiversity Assessment  
[http://www.itto.int/files/itto\\_project\\_db\\_input/2143/Technical/pd21-97-3%20rev2\(F\)%20Final%20Report%20Flora%20and%20Fauna%20Resources%20Inventory%20and%20Biodiversity\\_e.pdf](http://www.itto.int/files/itto_project_db_input/2143/Technical/pd21-97-3%20rev2(F)%20Final%20Report%20Flora%20and%20Fauna%20Resources%20Inventory%20and%20Biodiversity_e.pdf)

## **5. Traditional Uses of Forests**

Exploring Aboriginal Homes and Architecture  
<http://education.historicacanada.ca/en/tools/184?c=18>

## 6. Forest Sustainability Practices

*The Global Forest*

Diana Beresford-Kroeger, New York: Viking, 2010,  
[https://winca.ent.sirsiidynix.net/client/en\\_US/default/search/detailnonmodal/ent:\\$002f\\$002fSD\\_ILS\\$002f0\\$002fSD\\_ILS:762274/ada?qu=forest+sustainability&d=ent%3A%2F%2FSD\\_ILS%2F0%2FSD\\_ILS%3A762274%7EILS%7E2&h=8](https://winca.ent.sirsiidynix.net/client/en_US/default/search/detailnonmodal/ent:$002f$002fSD_ILS$002f0$002fSD_ILS:762274/ada?qu=forest+sustainability&d=ent%3A%2F%2FSD_ILS%2F0%2FSD_ILS%3A762274%7EILS%7E2&h=8)

*“In this new book, she skillfully weaves together ecology, ethnobotany, horticulture, spirituality, science, and alternative medicine to capture the magic spell that trees cast over us, from their untapped ecological and pharmaceutical potential to the roles they have played in our cultural heritage.”*

## 7. Geographic Information System and Maps

Geoscientific map showing bedrock geologies, elevations, and surface geology in Manitoba:  
<https://www.manitoba.ca/iem/geo/gis/geoscience.html>  
<https://mli2.gov.mb.ca/>

## 8. Forest Management Practices

*Bringing back the wolves: how a predator restored an ecosystem*

Jude Isabella, Toronto, ON: Kids Can Press, 2020,  
[https://winca.ent.sirsiidynix.net/client/en\\_US/default/search/detailnonmodal/ent:\\$002f\\$002fSD\\_ILS\\$002f0\\$002fSD\\_ILS:1274734/ada?qu=forest+management&d=ent%3A%2F%2FSD\\_ILS%2F0%2FSD\\_ILS%3A1274734%7EILS%7E4&h=8](https://winca.ent.sirsiidynix.net/client/en_US/default/search/detailnonmodal/ent:$002f$002fSD_ILS$002f0$002fSD_ILS:1274734/ada?qu=forest+management&d=ent%3A%2F%2FSD_ILS%2F0%2FSD_ILS%3A1274734%7EILS%7E4&h=8)

<https://www.nrcan.gc.ca/science-data/funding-partnerships/funding-opportunities/forest-sector-funding-programs/indigenous-forestry-initiative/13125>

- Funding for Indigenous led economic development in Canada’s forest sector

“A Case for Indigenous Community Forestry”:

[https://teachingcommons.lakeheadu.ca/sites/default/files/inline-files/lawler%20bullock\\_indi%20comm%20forestry%202017.pdf](https://teachingcommons.lakeheadu.ca/sites/default/files/inline-files/lawler%20bullock_indi%20comm%20forestry%202017.pdf)

“Involving Aboriginal People In Sustainable Forest Management”:

[https://www.sfmcanada.org/images/Publications/EN/Involving\\_Aboriginal\\_EN.pdf](https://www.sfmcanada.org/images/Publications/EN/Involving_Aboriginal_EN.pdf)

“Manitoba Signs Forestry Agreement With First Nation Consortium”:

<https://news.gov.mb.ca/news/index.html?item=45096&posted=2019-02-28>

- Black River First Nation, Brokenhead Ojibway Nation, Hollow Water First Nation and Sagkeeng First Nation:
  - determining wood supply and suitability for commercial forestry;
  - pursuing private partnerships and investment for commercial developments;
  - preparing a proposal for an Indigenous-owned and operated company to manage, develop, harvest and renew the area's forest; and
  - making an application for a long-term forest management license as well as supporting greater participation by Indigenous communities in economic development and sustainable management of the province's natural resources

## 9. Forest Safety and Health

“Forest Health, Urban Forestry and Forest Renewal”:

[https://www.gov.mb.ca/sd/forests\\_and\\_lands/forestry/forest\\_health\\_renewal/index.html](https://www.gov.mb.ca/sd/forests_and_lands/forestry/forest_health_renewal/index.html)

Brokenhead Wetlands Interpretive Trail (land protection):

<https://www.debwendon.org/wordpress/wp-content/uploads/2019/07/Brokenhead-Trail-Notes-July-2019.pdf>

Wildlife/Danger Tree Workbook (*Workbook*)

<https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/conservation-habitat-management/wildlife-conservation/wildlife-tree-committee/parks-handbook.pdf>

## 10. Wilderness Survival

Land Excursion Camp – Peguis First Nation

<https://peguisfirstnation.ca/bell-spirit-and-the-land-excursion-camp/#prettyPhoto>

- 64 youth participants over 4 years (beginning 2020)
- At-risk youth will experience traditional ways of living through camping, learning survival skills, harvesting and preparing traditional foods, gathering natural medicines, and sharing the harvest.

*Native American Survival Skills (Book)*

[https://books.google.ca/books?id=DYbn0zmmu0IC&printsec=frontcover&dq=indigenous+wilderness+survival+canada&hl=en&sa=X&ved=0ahUKewiMnfPj6\\_PpAhXPr54KHWXyDR4Q6AEIKDAA#v=onepage&q&f=false](https://books.google.ca/books?id=DYbn0zmmu0IC&printsec=frontcover&dq=indigenous+wilderness+survival+canada&hl=en&sa=X&ved=0ahUKewiMnfPj6_PpAhXPr54KHWXyDR4Q6AEIKDAA#v=onepage&q&f=false)

Wilderness Survival (*Workbook*)

<https://www.fortwhyte.org/wp-content/uploads/2018/08/Wilderness-Survival-PVA-2018.pdf>

Wilderness Survival Merit Badge (*Workbook*)

<http://boyscoutstrail.com/boy-scouts/meritbadges/wildernesssurvival.asp>