

**COURSE FOR1100: FORESTS FOREVER 1 (FOREST USE & PROTECTION)****Level:** Introductory**Theme:** Management and Conservation**Prerequisite:** None**Description:** Students describe past and present uses of Canada’s forests, and explain how research and technology assist in forest management.**Parameters:** Access to government and industry organizations responsible for the sustainable management of forests; e.g., Alberta Environmental Protection, Canadian Forestry Service.**Curriculum and Assessment Standards**

| General Outcomes                                                                                                                                                                                                                                                                                            | Assessment Criteria and Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Suggested Emphasis |
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| <p><i>The student will:</i></p> <ul style="list-style-type: none"> <li>describe past and present uses of forests in Alberta and Canada</li> <li>explain how the consumptive and nonconsumptive use of forests has created a need for conservation and sustainable management of forested regions</li> </ul> | <p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> <li>identifying and explaining: <ul style="list-style-type: none"> <li>past and present uses of forests in Alberta and Canada</li> <li>ways in which changes in forest use (and management) have affected the economy and the environment.</li> </ul> </li> </ul> <p><i>Assessment Tool</i><br/> <i>Knowledge/Application Assessment: Forest Use, FOR1100–1</i></p> <p><i>Standard</i><br/> <i>Respond to a standard of 1 on the rating scale</i></p> | 20                 |
|                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>definitions and examples of sustainable yield and sustainable development within the context of Alberta’s forested regions.</li> </ul> <p><i>Assessment Tool</i><br/> <i>Knowledge/Application Assessment: Sustainability, FOR1100–2</i></p> <p><i>Standard</i><br/> <i>Respond to a standard of 1 on the rating scale</i></p>                                                                                                                                                                                        | 30                 |



**COURSE FOR1100: FORESTS FOREVER 1 (FOREST USE & PROTECTION) (continued)**

| Concept                     | Specific Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Notes                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Forest History              | <p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• describe changing patterns of forest use in Canada and Alberta from past to present</li> <li>• describe the history of the management of forested lands in Canada and Alberta</li> <li>• infer the impact of historical trends in forest use and ownership on people, the economy and the environment</li> <li>• make predictions about the use of Canada's forest resources in the future.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Trace the development of Alberta's forest land acts, policies and agencies.</p> <p>Supplementary reference materials include:</p> <ul style="list-style-type: none"> <li>• <i>A Forest Journey – The Role of Wood in the Development of Civilization</i> (Harvard University Press)</li> <li>• <i>Canadian Forestry – The View Beyond the Trees</i> (Macmillan of Canada).</li> </ul>                 |
| Conservation and Management | <ul style="list-style-type: none"> <li>• compare different uses of forested regions in terms of their advantages and disadvantages; e.g.:               <ul style="list-style-type: none"> <li>– environmental</li> <li>– economic</li> <li>– social</li> </ul> </li> <li>• describe the roles of different interest groups in managing the forest resource; e.g.:               <ul style="list-style-type: none"> <li>– government</li> <li>– forest industry</li> <li>– general public</li> <li>– other stakeholder groups</li> </ul> </li> <li>• relate concepts of sustainable development and sustained yield to practical strategies for managing the forest resource; e.g.:               <ul style="list-style-type: none"> <li>– reforestation</li> <li>– stand improvement</li> </ul> </li> <li>• describe an issue regarding sustainable development and/or sustained yield; e.g.:               <ul style="list-style-type: none"> <li>– conduct research</li> <li>– develop a position</li> <li>– participate in debate</li> </ul> </li> <li>• explain demands that are placed on forested regions of Canada and Alberta; e.g.:               <ul style="list-style-type: none"> <li>– industry</li> <li>– recreation</li> <li>– wildlife</li> <li>– environment</li> </ul> </li> </ul> | <p>Invite resource persons from relevant government agencies and local forest industry.</p> <p>Prepare a poster/collage/display that depicts different aspects of forest use.</p> <p>Visit local forest sites.</p> <p>Develop strategies for debate and consensus building; e.g., selective versus clearcut logging practices.</p> <p>Invite resource people from the community to critique debates.</p> |

**COURSE FOR1100: FORESTS FOREVER 1 (FOREST USE & PROTECTION) (continued)**

| Concept                                 | Specific Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Conservation and Management (continued) | <p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• identify a plan for the integrated use of a local forested area; e.g.:               <ul style="list-style-type: none"> <li>– conduct research</li> <li>– generate alternatives</li> <li>– agree to a workable solution.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Examine existing management plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Forest Protection                       | <ul style="list-style-type: none"> <li>• explain reasons for protecting the forest resource; e.g.:               <ul style="list-style-type: none"> <li>– material and non-material benefits</li> <li>– environmental impact</li> </ul> </li> <li>• identify and describe major components of forest protection; e.g.:               <ul style="list-style-type: none"> <li>– forest fire management</li> <li>– soil conservation and land reclamation</li> <li>– pest and disease management</li> </ul> </li> <li>• explain basic goals and techniques of forest fire management, soil conservation and land reclamation</li> <li>• identify and describe symptoms of common forest pests and diseases</li> <li>• compare different methods of pest and disease control; e.g.:               <ul style="list-style-type: none"> <li>– biological methods</li> <li>– forest management</li> <li>– chemical methods.</li> </ul> </li> </ul> | <p>Prepare a display of technologies used in forest protection.</p> <p>Invite a local forest ranger to explain components/ techniques of forest protection.</p> <p>Compare and contrast the consequences of forest fires and logging practices.</p> <p>Explain the fire triangle and methods used to control fire by removing one or more legs of the triangle.</p> <p>Visit a cutblock and examine for successful regeneration.</p> <p>Visit a plantation/tree nursery and examine seedlings.</p> |