

**COURSE FOR3120: INTEGRATED RESOURCE MANAGEMENT (BALANCING NEEDS)**

<b>Level:</b>	Advanced
<b>Theme:</b>	Management and Conservation
<b>Prerequisite:</b>	FOR2120 Users in the Forest
<b>Description:</b>	Students develop and present an integrated plan for sustainable development of the forest resource.

**Parameters:** Access to government, industry and community organizations responsible for sustainable forest management and environmental stewardship; e.g., Alberta Environmental Protection, Alberta Forest Products Association, special-interest groups.

**Note:** This is a summative course that requires prior knowledge of the principles of sustainable management. It should be the last course studied in a series of Forestry courses.

**Curriculum and Assessment Standards**

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<i>The student will:</i> <ul style="list-style-type: none"><li>describe basic forest management principles</li></ul>	<i>Assessment of student achievement should be based on:</i> <ul style="list-style-type: none"><li>definitions and Alberta examples of sustainable development, sustained yield, integrated land use and multiple use management.</li></ul> <p><i>Assessment Tool</i> <i>Knowledge/Application Assessment: Forest Management Principles, FOR3120-1</i></p> <p><i>Standard</i> <i>Respond to a standard of 3 on the rating scale</i></p>	10



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(continued)

Concept	Specific Outcomes	Notes
Planning Process	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• identify short- and long-term goals for the management of forested land on an integrated basis; e.g.:               <ul style="list-style-type: none"> <li>– recreation</li> <li>– forage</li> <li>– wildlife habitat</li> <li>– wood fibre</li> <li>– oil and gas</li> </ul> </li> <li>• identify scientific, economic and social factors to be addressed through the management plan; e.g.:               <ul style="list-style-type: none"> <li>– the objectives of different stakeholders</li> <li>– relevant government acts and regulations</li> <li>– forest inventory requirements</li> <li>– the silvics of tree species and appropriate harvest methods</li> <li>– consumer trends and markets for forest products</li> <li>– potential applications of research and technology</li> </ul> </li> <li>• survey the views of different stakeholders in the forest and resolve conflicts that may arise; e.g.:               <ul style="list-style-type: none"> <li>– recreational</li> <li>– environmental</li> <li>– aboriginal</li> <li>– industrial</li> <li>– agricultural</li> </ul> </li> <li>• incorporate consultation with other resource users and public involvement into the planning process</li> <li>• identify alternative means of achieving the management goals, and select the preferred alternatives</li> <li>• elaborate upon permits, licences or other legal agreements that may be required</li> </ul>	<p>See <i>Alberta's Focus on Forests</i>:</p> <ul style="list-style-type: none"> <li>• 4.3–Forest Perspectives</li> <li>• Activity 5.5–Integrated Resource Management.</li> </ul> <p>Interview a local land-owner to determine long-range goals for a particular woodlot/forested region. Prepare written management plans that are consistent with the landowner's long-range goals. Compare the plans prepared with the recommendations of a professional forester.</p>

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(continued)

Concept	Specific Outcomes	Notes
<p>Planning Process (continued)</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• develop a set of actions and present the management plan; e.g.:               <ul style="list-style-type: none"> <li>– a general description of the forested area</li> <li>– long-term management objectives</li> <li>– short-term management objectives</li> <li>– proposed management standards and guidelines</li> <li>– a schedule of short-term development activities</li> </ul> </li> <li>• prepare a map to accompany and elaborate upon the management plan; e.g.:               <ul style="list-style-type: none"> <li>– boundaries of the forested area</li> <li>– forest cover and other resources within the area</li> <li>– physical features</li> <li>– history of past development</li> <li>– road access</li> <li>– proposed development activities</li> </ul> </li> <li>• describe techniques for monitoring the management plan to ensure that goals are being achieved.</li> </ul>	<p>Specific management plans will vary, but need to address some common actions.</p>