

BA Resource Management 11D

BAA Resource Management Program
District Name Kamloops-Thompson District
District Number 73
Developed By Dave Eburne
Date Developed April 2005
School Name Norkam Secondary School
Principal's Name Mr. Allan Dodd
Board/Authority Approval Date 2005/05/30
Board/Authority Signature
Course Name Resource Management 11D
Grade Level of Course 11
Number of Course Credits 110 Hours

Prerequisite: The student will be required to submit an application form.
The student will be required to attend an interview prior to entering the program.

Special Training, Facilities or Equipment Required:

Course Synopsis: This course offers students the opportunity to learn about natural streams and how streams relate to the Resource Management Sector as basic wild fire fighting suppression techniques.

Rationale: Resource Management involves the possible use of areas around streams: therefore students must learn how to manage and balance between the resource and the needs of the stream. In addition, fire suppression is often an entry level position for employment in the forestry sector and has a specific skill set and certification.

Organizational Structure: This course consists of two units of study.

Unit/Topic	Title	Time
Unit One	Stream Keepers	80 hours
Unit Two	S100	30 Hours
	Total Time	110 Hours

Unit/Topic/ Module Descriptions:

Unit One - Stream Keepers - 80 Hours

This unit of study teaches students about natural streams and how streams relate to the Resource Management Sector.

Topics in this unit include the following:

- The establishment of watershed boundaries, watershed cores, and stream orders
- The completion of field data sheets
- The identification and description of unmapped features
- To conduct a cross-sectional survey
- To measure stream discharge
- To measure and observe habitat characteristics
- To complete water quality surveys
- To complete stream invertebrates surveys
- To identify and count the invertebrates and their pollution tolerance
- To understand the procedures for large clean up projects
- To understand streamside planting and fencing
- To identify and report unlawful activities that affect fish, wildlife, and aquatic habitat
- To trap and identify juvenile fish
- To complete a creel survey

Unit Two - S100 -must be taught by a certified instructor - 30 Hours over two days – seven hours in the classroom with an exam at the end of the day and the second day is practical field experience with pumps and hand tools.

This unit will provide students with certification in basic wild fire suppression. The unit of study includes the following topics:

- The 10AM Concept
- Detecting and Reporting fires
- Fire Behaviour
- Fire Suppression

- Tools and equipment needed
- Fire line safety
- Water Delivery Systems

Instructional Component:

It is suggested that students taking Resource Management 11D receive explicit instruction throughout the course to ensure that the learning outcomes are taught and learned. A variety of methods may be implemented such as workshop formats, weekly meetings, direct instruction, etc.

Instructional components may include some or all of the following:

- one to one instruction in the classroom as well as on the work site
- role plays
- direct instruction
- experiential learning
- field work
- modeling best practices
- discussion, group work, conferencing

Assessment Component:

Resource Management 11D provides many opportunities for students to add to their graduation portfolio. Students will have the opportunity to collect letters of reference, information about careers, photo essays, videotapes, etc.

Teachers should choose from a variety of assessment tools to fit the unique learning outcomes and performance nature of this program.

- Daily Log Book by student
- Reflective Journal by student
- Self-Evaluations
 - o Formative
 - o Summative
- Observation
 - o Anecdotal

- Checklists
- Checklists made by teacher
- Employability Skills Checklist
 - Planning 10
 - Work Experience

Assignments	20%
Mid-Term Exam	20%
Final Exam	30%
Contract and Fieldwork Work	30%

Learning Resources:

The following is a list of the resources needed for this course:

- transportation
- First Aid Supplies
- Gloves
- Helmets
- Ear Protection
- Fish Traps
- Field Notebooks
- Hip Waters
- Stream Keepers Field Box
- Water Pumps, hose, and nozzles