BA Resource Management 11B

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 11B
Grade Level of Course	11
Number of Course Credits	125 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 is the introductory level component which deals with the different uses of measurements used in the Resource Management Field as well as the use of a variety of computer software programs currently used in the Forestry sector.

Rationale: This course offers students the opportunity to learn about Field Measurements and the collection and transfer of field notes using computer technology.

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

Unit/Topic	**Title**	**Time**
Unit One	Measurements	75 hours
Unit Two	The Use of Computers in Forestry	30 hours
Unit Three	Contract Work	20 hours
	Total Time	**125 Hours**

Unit/Topic/ Module Descriptions:

Unit One - Measurements - 75 Hours

This unit of study helps students to distinguish between several different types of surveys. Students will understand the purpose of different types of surveys.

This unit includes the following topics:

- The description of the common sources of error in traverse surveys
- To distinguish between precision and accuracy
- To locate potential tie points on an aerial photo and/or map located on the ground
- To correctly use a field compass to measure bearings between features and to follow a bearing to a desired location
- To determine the correct declination for a specific area and to set the declination adjustment on a hand compass
- To detect local attraction and to record field notes for later adjustments
- To measure slop distance using pacing, chaining, tapes, and estimation
- To convert between slope distance and horizontal distance using slope table and trig functions
- To calculate change in elevation using percent slope and measured distance
- To record field traverse data including bearings, distance measurements, elevation and field mapping
- To perform a simple close traverse including slope distance and slope correction
- To plot and draw an adjusted traverse
- To produce a map
    - Draw the map to scale based on field observations and recorded field notes
- To determine the height of objects on level or sloped ground using a chain/tape and the use of a clinometer
- To understand some introductory principles of field sampling measurements

Unit Two - The Use of Computers in Forestry - 30 Hours

This unit will provide students with various examples of software typically used in the field of Renewable Resources.

This unit includes the following topics:

- The use of Windows XP
  - To create, copy, move and delete files and folders

- The use of Virus-Scanning software to check a computer for viruses
- To send e-mail messages with attachments
- The use of WinZip to compress, decompress and copy files
- The use of FTP software to move large files from one computer to another
- Word Processing Software
  - Resume writing
  - Memos
  - Reports
- To create simple spreadsheets for the Resource Management Field
  - To create charts from spreadsheet data
- To use RoadEng
  - To create plots based on field traverse notes

Unit Three - Contract/Field Work - 20 Hours

This unit enables students to apply their knowledge of Measurement on a practical level. Students are required to measure on a work site and to use the sampling of plots and block outlines.

Instructional Component:

It is suggested that students taking Resource Management 11B 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 11B 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
    - Formative
    - Summative
- Observation
    - 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
- Hand Compass
- Hip Chains and Tapes
- Clinometers
- Computers with the appropriate software
- Field notebooks