

BA Resource Management 12D

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 12D
Grade Level of Course 12
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: The course offers students the opportunity to learn about different Air Photo and Mapping skills. This course also offers students with the opportunity to upgrade their Portfolios and to review the software program used in the Forestry industry, specifically the use of RodEng.

Rationale: This course offers students with the opportunity to learn about Air Photo and Mapping used in the forestry industry and to provide the opportunity up grade individual student Portfolios. Further, a detailed review will be conducted to ready the student for the Entrance Exam into BCIT.

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

| Unit/Topic | Title | Time |
|-------------------|-----------------------|------------------|
| Unit One | Air Photo and Maps | 60 Hours |
| Unit Two | Computers in Forestry | 30 |
| Unit Three | Portfolio | 20 Hours |
| Total Time | | 110 Hours |

Unit/Topic/ Module Descriptions:

Unit One - Air Photo and Maps - 60 Hours

This unit of study teaches students about photos taken from the air and their interpretation.

Topics in this unit include the following:

- The description, use and characteristics of a map
- The use of scales to determine distance on a map or to estimate distance on a aerial photo
- To describe the characteristics, use and features of aerial photos
- To estimate the size of areas on a map or aerial photo
- The use of a topographic map for determining slope and stream flow direction
- To describe the advantages and disadvantages of ortho photos
- The use of aerial photos to navigate in the woods
- The identification of timber types using aerial photos

Unit Two - Computers in Forestry - 30 Hours

This unit will provide students with opportunity to use computer software used in the Forestry industry.

Topics in this unit of study include the following:

- The use of Windows XP
 - o Create, copy, move, delete files and folders
- Use WinZip

- Compress, decompress, and copy files
- Use FTP software
 - Move large files from one computer to another
- Word processing tasks
 - Resume writing
 - Memos
 - Report writing
- Use Rod Eng
 - Create plots based on field traverse notes

Unit Three - Portfolios - 20 Hours

This unit of study will enable to students to fulfill their Graduation requirements in order to graduate with a Dogwood Diploma.

Topics in this unit of study include the following:

- Art and Culture
- Community Involvement and Responsibility
- Education and Career Planning
- Employability Skills
- Information Technology
- Personal Health
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Instructional Component:

It is suggested that students taking Resource Management 12C 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 12D 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
 - o Checklists
- Checklists made by teacher
- Employability Skills Checklist
 - o Planning 10
 - o Work Experience

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| 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:

- Air Photo Maps
- Computers