

EDUCATION 475 - DESIGNS FOR LEARNING MATH

Spring Session, 1991

Location: Northern Lights College

Fort St. John Campus

MON., WED. & THURS. 1:30 - 3:00 P.M.

JAN. 7 - APR. 5, 1991

Instructor: Waldo Dahl

Phone: 785-5907

785-6981

PROCEDURE

This course will consist of a two hour lab session and a two hour lecture discussion session. For the lab session you will be required to keep a record of your lab activities. The assignments in this course will include the following:

1. preparation of journal abstracts of articles from math education journals;
2. weekly end-of-chapter work on the topic of the week;
3. a collaboratively prepared unit plan and an individually prepared lesson plan.

In addition, there will be 20 minute weekly quizzes as well as a final covering work of the entire course.

CONTENT

Week 1 - Chapter 1

Attribute Materials and Mathematical Thinking

Week 2 - Chapter 2

Number and It's Uses

Week 3 - Chapter 7

Place Value

Week 4 - Chapter 4

Developing Operations on Counting Numbers with Cuisenair Rods

Week 5 - Chapter 5

Basic Facts and Their Uses - Operations on Whole Numbers

Week 6 - Chapter 9

Whole Number Algorithms and Their Uses

Week 7 - Chapter 3

Informal Geometry

Week 8 - Chapter 6

Measurement and the Metric System

Education 475 - Design for Learning Math
Course Outline - Page 2

Week 9 - Chapter 8
Geometry on a Geoboard

Week 10 - Chapter 10
Number Patterns and Problem Solving

Week 11 - Chapter 11
(1) Rational Numbers (2) Diagnosis

Week 12
(1) Statistics (2) Evaluating Pupil Progress

GRADING

Lab Records	Pass/Fail	15
Assignments:		
Journal Abstracts		10
End of Chapter Work		15
Unit and Lesson Plan	Pass/Fail	10
Quizzes		20
Final		<u>30</u>
Course Grade		100

TEXT

Fuys D. & Tishler, R.
Teaching Mathematics in the Elementary School
Scott Foresman & Co. 1979