

EDUCATION 475-4

Designs For Learning: Mathematics

Summer Session 1977

Instructors: Prof. A.J. Dawson  
Prof. J.V. Trivett  
Anita LoSasso  
David S. Fielker (U.K.)

The course will include both elementary and secondary student-teachers with a large number of participants.

Using seminar format, students will study the bases for school arithmetic and mathematics. Seminar groups will concentrate on issues such as quality and correctness in student performance, areas of the curriculum where improvement is needed and specific applications to the K-12 curriculum.

The course will be essentially an inter-related mixture of enjoyable practical work, discussion, work with children, films, videos, etc. From the manipulation and actions on coloured rods, attribute blocks, symbols, geoboards and counters it will concentrate on individual need for insight skills and awareness of what mathematics is, and how it can be communicated to children in school.

Evaluation of each student's and leader's worth; his/her accomplishments from the course; the expected value of this for a beginning teacher - this goes on all the time. For the more limited purposes of a university grade, extracts will be made from time to time from that continuum of reality, taking into consideration the leaders' views of student participation and their own views of their work and growth in learning mathematics and in learning how to teach mathematics in B.C. or elsewhere.

Required Text: The Common Sense of Teaching Mathematics, Gattegno.

Recommended texts: What We Owe Children, Gattegno.  
Games Children Play for Learning Mathematics,  
Trivett.  
The Psychology of Learning Mathematics,  
Skemp (for secondary students).

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