



# Simon Fraser University

SUMMER SEMESTER 1984

Quesnel

Simon Fraser University will be offering the following course in Quesnel during the 1984 Summer Session (August 13-24)

Course: Education 486-4 Special Topics: Microcomputers in Education

Instructor: Bill Atkinson

Class dates: August 13 - August 24  
(Monday, August 13 and 20, 8:00 a.m. - 5:00 p.m.,  
August 14 - 17 and 21 - 24, 8:00 a.m. - 12:00 p.m.)

Location: College of New Caledonia  
488 McLean Street  
Quesnel, B.C. V2J 2P2

Maximum Enrolment: 20

Course Description:

Computers are becoming a fact of life for educators. The problem for teachers is to: a) gain the necessary computer literacy and, b) find a realistic method for implementing computer use in the classroom (especially at the elementary level) within the current financial constraints. Students in this course will: a) be able to confidently use a wide range of commercial educational software and understand the Apple's operating system, b) be able to teach computer literacy and program design to students using the computer literacy and program design to students using the computers language Logo, c) be able to critically evaluate commercial software and select effective programs for classroom use, d) be able to operate "tool" programs (spreadsheet, work processing, and information filing) at a beginning level and have a sufficient understanding to continue self-education in these programs, e) be able to recognize the major BASIC language command words and develop an initial grounding in their use, and f) develop a critical awareness of the theoretical issues involved in the increasing use of computers in society.

Textbooks: Papert, Seymour. Mind-Storms  
Ross, Peter. Introducing Logo

Books may be purchased the first day of classes.

Prerequisites: Education 401/402 or equivalent

For more information please contact:

Kas Jochim  
District Resources Coordinator  
Media Centre  
450 Bowran Avenue  
Quesnel, B.C. V2J 2H5

Undergraduate Programs  
Faculty of Education  
Simon Fraser University  
Burnaby, B.C. V5A 1S6

922-5763

291-3643

IMPORTANT: Please turn over for S.F.U. Admissions and Registration Information.

SUMMER SESSION 1984 REGISTRATION AND ADMISSION INFORMATION

New Students and Former Students  
Requiring Re-Admission (i.e. Students  
who have not completed SFU courses  
in the last 3 semesters)

Continuing Students (i.e. Students who  
have completed SFU courses in the last  
3 semesters.

May 11 - DEADLINE for submission of  
Application for Admission or Re-Admis-  
sion form and supporting documents\*  
(those admitted will receive SFU regi-  
stration materials from the Registrar's  
Office)

May 11 - DEADLINE for submission of  
Registration Intent Card (which is  
mailed directly to all Continuing  
students by Registrar's office) (those  
returning Intent Card will receive SFU  
registration materials from the Regis-  
trar's Office)

June 13 - DEADLINE for submission of Pre-  
registration form to the Registrar's  
Office.

June 13 - DEADLINE for submission of  
Pre-registration form to the Registrar's  
Office.

July 3 - DEADLINE for payment of fees  
by mail to arrive in Registrar's Office.

July 3 - DEADLINE for payment of fees  
by mail to arrive in Registrar's Office.

\* Students seeking admission to the University will be assessed an evaluation  
fee of \$25.00 (separate cheque payable to Simon Fraser University) for non-B.C.  
documents.

For further information concerning:

Admission (Please call)  
The Registrar's Office  
291-3224

Registration (Please call)  
Undergraduate Programs  
291-3643

SFU Tuition Fees

Cost per credit hour	\$32.00
Student Activity fee for "off-campus" courses	\$12.00

Total cost for Education 486-4 will be \$140.00 (cheque payable to Simon Fraser  
University)

SIMON FRASER UNIVERSITY  
Faculty of Education

EDUCATION 486-4

COURSE OUTLINE

Special Topics: MICROCOMPUTERS IN THE CLASSROOM

Instructor: Bill Atkinson

Quesnel, B.C.  
Summer Session '84

OBJECTIVES

Computers are becoming a fact of life for educators. The problem for teachers is to: a) gain the necessary computer literacy and, b) find a realistic method for implementing computer use in the classroom (especially at the elementary level) within the current financial constraints. Students in this course will:

- a) be able to confidently use a wide range of commercial educational software and understand the Apple's operating system.
- b) be able to teach computer literacy and program design to students using the computer language Logo
- c) be able to critically evaluate commercial software and select effective programs for classroom use
- d) be able to operate "tool" programs (spreadsheet, word processing, and information filing) at a beginning level and have a sufficient understanding to continue self-education in these programs
- e) be able to recognize the major BASIC language command words and develop an initial grounding in their use
- f) develop a critical awareness of the theoretical issues involved in the increasing use of computers in society.

This is an introductory course designed to provide classroom teachers with the skills needed to effectively implement computer use in their classrooms. The programming language Logo will be emphasized and teachers will be well on their way to becoming competent Logo programmers at the end of the course. However the course is not designed to prepare teachers to write computer-assisted learning materials nor to teach computer science courses.

EDUCATION 486-4

MICROCOMPUTERS IN EDUCATION

Instructor: Bill Atkinson

COURSE OUTLINE SUPPLEMENT

PARTICIPANTS

Though the course will be of value to any teacher who has had little exposure to computers it is specifically designed to provide the information and skills necessary for an effective computer literacy program in the elementary classroom. Upon completion of the course the teacher who is willing to continue with exploration and self-education will be able to develop a high degree of competency.

COURSE TIMETABLE

As a two week "short course" this course will be a very intensive experience. Every effort will be made to reduce non-essential activities (i.e. notes will be printed before the course begins to reduce lecture time and notetaking time).

During the course, except for the two Mondays, the class will meet for 4 hours each morning (8 A.M. to 12 P.M.). In addition the lab will be open each afternoon for 3 to 4 hours depending on demand.

The two Monday classes will each be 8 hours long and are designed as "immersion" courses in each of the two computer languages, Logo and BASIC. The instructor's bias is that no one can claim to be computer literate until they can write programs in at least 1 computer language. Though the course will not provide all the necessary skills for teachers to become competent programmers it will provide a solid groundwork for self-education or further course work.

## ASSIGNMENTS AND EVALUATION

Most of the small assignments (counting for 60% of the mark) will be completed during class time. Afternoon lab time will usually be used to work on the course project.

### Course Project

The course project will consist of one of the following:

- a) an outline (with some complete lesson plans) for using Logo at a specific grade level
- b) an outline (with some complete lesson plans) for teaching the use of a word processor at a specific grade level
- c) the initial development of an educational data base for use either as an administrative tool, classroom resource, or teacher organizer
- d) the development of a spreadsheet program that has administrative or educational utility
- e) a computer assisted learning (CAL) program written in either Logo or BASIC, focused on a single concept

## COURSE REQUIREMENTS

Participants should come to class with a notebook, a mechanical penic if possible, two or three disks, and \$20 to \$40 for the purchase of texts. The instructor will be able to provide disks, and will also attempt to have a supply of the two recommended texts.

## BILL ATKINSON

## RESUME

- 1970 B.A. Honors English, U.B.C. Vancouver, B.C.
- 1972 Fifth-year Education, U.B.C., Reading specialty  
Learning Assistant, Quesnel Junior Secondary,  
Quesnel, B.C.
- 1974 Department Head of Special Education and English
- 1975 "Setting up a Secondary Reading Centre" inservice  
at B.C. English Teachers annual convention  
M.Ed. in Reading, U.B.C., supervisor E.G. Summers
- 1976 Department Head of English, Quesnel Secondary  
Member Provincial Team that wrote English 9  
Resource Book  
"Literacy and the Icelandic Connection" paper  
presented at IRA Convention, Vancouver
- 1977 "Poetry Connection" and "Dilemma" inservice pre-  
sented to Fraser Valley Inservice Session  
"Locus of Control and Reading: a Review of  
Measuring Instruments" with E.G. Summers, paper  
presented at IRA Annual convention, Houston
- 1978 Member of management committee for Provincial  
Written Expression Assessment  
Summer instructor at Simon Fraser University  
Education 483 (Reading Education)  
"Questions and Comprehension" and "Composition  
Skills" inservice presented at Vanderhoof, B.C.
- 1979 Grade 4 teacher, Dragon Lake Elementary  
"Research Needed in Comprehension: a Teacher's  
View" paper presented at IRA Annual Convention,  
Atlanta
- 1980 Learning Assistant, Quesnel Secondary  
"Comprehension Strategies" inservice Burns Lake  
"Strategies for Vocabulary Instruction" and  
"Reading Diagnosis" inservice Quesnel, B.C.
- 1981 "Literacy, Minimal Competence and What We Can  
Learn from Iceland", Education Canada, 21,  
1981, pp. 24-29  
"Reading, Semantics and Social Studies", The  
History and Social Science Teacher, 17,  
1981, pp. 40-43

- 1982 "Written Expression: Theory and Strategies",  
in service for Regional Learning Assistants  
Williams Lake, B.C.  
"The Commercial Fractionation of the Language  
Arts", The B.C. Teacher, 61, 1982,  
pp. 168-170  
"Rain Days", Our Family, 33, April 1982, p.21  
Member, Editorial board of Journal of Learning  
Disabilities: Computers in the School  
"Shell Games: Software Review", Journal of  
Learning Disabilities, 15, 1982, p.373.
- 1983 Computer Science teacher, Quesnel Secondary  
"Annotated Bibliography of Magazines and Journals  
for Educators Interested in Computers: High  
Circulation Magazines", Journal of Learning  
Disabilities, 16, 1983, pp.120-122.  
"In Defense of BASIC", Journal of Learning  
Disabilities, 16, 1983, p.370.  
"Courseware Review: Milliken Math Sequences",  
Journal of Learning Disabilities, 16, 1983,  
pp. 371-372.  
"Teaching Vocabulary Means Teaching Concepts",  
Knowledge Network Production, Feb. 17, 1983  
(two half-hour TV sessions)  
"Arithmetic Remediation and the Learning  
Disabled Adolescent: Factions and Interest  
Level", Journal of Learning Disabilities,  
16, 1983, 403-406.  
Instructor, Simon Fraser University, Education  
486 (Microcomputers in the Classroom), Fall '83
- 1984 "An Assessment Process for the Resource Teacher",  
Reading-Canada-Lecture, 1984, in press  
"Software Reviews: Educational Considerations",  
Journal of Learning Disabilities, 1984, in press.