• •	SIMON FRASEF	2.01-22
	ToSenate	From Office of the Dean of Graduate Studies
	Subject New Graduate Course Proposals - Faculty of Education	Date December 16, 1980

MOTION: That Senate approve and recommend approval to the Board, as set forth in S.81-25 - New Graduate Course Proposals - Faculty of Education.

These changes were approved by the Executive Committee of the Senate Graduate Studies Committee on December 15, 1980.

Bryan P. Beirne Dean of Graduate Studies

/bjr

attachs.

# SIMON FRASER UNIVERSITY memorandum

Dr. Bryan P. Beirne	From J. W. George Ivany
Dean of Graduate Studies	Dean of Education
Subject	Date 1980-11-12
The Faculty of Education at its approved the attached new cours EDUC 851 Computer-Based I EDUC 860 Contemporary Ins	se proposals: STUDIED OFFICE
JWGI:nb cc Executive Committee Enclosures	M.M. Svanz
	NOV 141980 REGISTRAR'S OFFICE
	MAIL DESK

	No.	W Graduate Course Pi	roposal Form	Гс	orm GS.8
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#### COURSE OUTLINE

The development and adoption of computer-based learning in education has been restricted by 1) the high initial cost and complexity of computer technology, 2) the lack of adequate instructional software and 3) a lack of knowledge and skills in the design and use of computer based materials on the part of educators.

With the arrival of relatively inexpensive and technically less complex microcomputers, the first two obstacles are rapidly disappearing. There is a need to develop in educators a critical appreciation of the potential of computers in education as well as the skills to effectively utilize this technology.

This course is designed for teachers who wish to investigate the various applications of computers in education, to develop skills in selecting and evaluating computer based learning materials, to develop skills in the design of computer based learning programs, and to develop their own and their student's computer literacy.

The course will cover the following topics:

1. Interface of the computer and education

a) Developments in computer-based learning (CBL)

- b) Review of the research on CBL
- c) Microcomputer systems for education
- 2. Computer-based learning paradigms
  - a) Computer-assisted instruction (CAI)
  - b) Computer-managed instruction (CMI)
    - c) Simulation and gaming
    - d) Problem solving and modeling
- 3. Selection, evaluation and utilization of CBL materials
  - a) Sources for CBL courseware
  - b) Criteria for CBL materials
  - c) Adapting and integrating CBL into the curriculum

- 4. Design and production of CBL materials
  - a) Principles of instructional design
  - b) Programming languages for education
  - c) Producing CBL programs

Course activities will consist of lectures, demonstrations, readings and laboratories. Student evaluation will be based on short tests related to the lectures and readings, on programming and evaluation assignments, and on a final project consisting of the design and production of a computer-based learning program.

#### RESOURCES

The Learning Resources Centre has four Apple II microcomputers with magnetic disc drives, a graphics tablet and printer. A collection of sample programs and microcomputer journals and newsletters is being developed. The library has over eighty per cent of the books and journals on the reading list.

Robert Jones, the proposed instructor has over ten years experience in educational technology. His doctoral work at the Ontario Institute for Studies in Education was in computer applications and his current research interests are in the interfacing of television and computer technologies for instructional purposes. He has taught graduate level courses in microcomputers for teachers and trainers at McGill and Concordia Universities.

- 2 -

RECOMMENDED READINGS

Atkinson, R.C. <u>Computer-Assisted Instruction: Final Report</u>. Stanford, Ca.: Institute for Mathematical Studies in the Social Sciences, Stanford University, 1974.

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- Bailey, D.E. <u>Computer Science in Social and Behavioral Science Education</u>. Englewood Cliffs, N.J.: Educational Technology, Publications, 1978.
- Baker, F.B. <u>Computer Managed Instruction: Theory and Practice</u>. Englewood Cliffs, N.J.: Educational Technology, Publications, 1978.
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- Bullock, D.H. <u>Programmed Instruction</u>. Englewood Cliffs, N.J.: Educational Technology Publications, 1978.

Computer Based Science Instruction. Proceedings of the NATO Advanced Study Institute on Computer-Based Science Instruction, Louvain-la-Neuve, Belgium, 1976.

Davis, W.D. & McCormack, A. <u>The Information Age</u>. Reading, Mass.: Addison-Wesley Publishers, 1979.

- Dwyer, T. & Cutchfield, M. <u>Basic and The Personal Computer</u>. Reading, Mass.: Addison-Wesley Publishing Company, 1978.
- Dyer, C.A. <u>Preparing for Computer Assisted Instruction</u>. Englewood Cliffs, N.J.: Educational Technology Publications, 1971.
- Edwards, J.B. Computer Applications in Instruction: A Teacher's Guide to Selection and Use. Hanover, N.H.: Northwest Regional Laboratory, Timeshare, 1978.
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- Hicks, B.L. & Hunka, S. The Teacher and the Computer. Philadelphia: Saunder, 1972.
- Huntington, J.F. Computer Assisted Instruction Using BASIC. Englewood Cliffs, N.J.: Educational Technology Publications. 1979.

Doer, C. <u>Microcomputers and the Three R's: A Guide for Teachers</u>. Rochelle Park, N.J.: Hayden Book Company, 1979.

Meredith, J.C. <u>The CAI Author-Instructor: An Introduction and Guide to the Indepen-</u> <u>dent Preparation of Computer Administratable Instructional Materials in the</u> <u>Conversational Mode</u>. Englewood Cliffs, N.J.: Educational Technology Publications, 1971.

Poirot, J.L. & Groves, D.N. <u>Computer Science for the Teacher</u>. Manchaca, Texas: Sterling Swift Publication Company, 1976

Rushby, N.J. An Introduction to Educational Computing. London: Croom Helm, 1979.

Serdel, R.J. & Ruben, M. <u>Computers and Communications: Implications for Education</u>. New York: Academic Press, 1975.

The Use of the Computer in Teaching Secondary School Subjects. Paris: Organization for Economic Co-operation and Development, 1976.

#### JOURNALS FREQUENTLY REFERENCED:

AEDS Journal British Journal of Educational Technology Byte Calculators/Computers Magazine Computers and Education Creative Computing Educational Communications and Technology Journal Educational Technology Instructional Innovator Instructional Science Journal of Computer Based Instruction Journal of Educational Technology Systems Programmed Learning and Educational Technology Technological Horizons in Education

#### SFU LIBRARY COLLECTION EVALUATION

(To be completed only for new course or program proposals.)

EDUCATION

Course No. and Name or Program: No.886; No.860; No.851
 Date to be offered: Fall 1981

2. Resources currently in collection:

Reading lists. No. and Z of titles available: <u>110</u> <u>63</u> Z Related materials in general collection:

Monographs: 1000+

Serials Subscriptions: 50+

Backfiles:

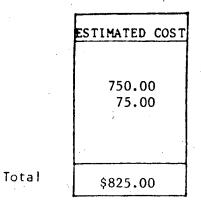
Other:

3. Recommended additions to collection:

(Indicate approx. no. of titles, vols., date, as appropriate) Monographs: 75 New serials subscriptions: 5

Serials backfiles:

Other (specify):



### SIMON FRASER UNIVERSITY

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ENROLLMEN	AND SCHEDULING:		
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#### Education 860~5

#### Contemporary Instructional Psychology

Description: Critical analysis and synthesis of recent theoretical and empirical research in instructional psychology and cognate areas. Emphasis will be given to designing effective instructional environments using principles gleaned from behavioral, cognitive, and phenomenological perspectives.

Justification: Instructional psychology is a developing specialized area in education defined as the scientific study of students' responses to environments engineered to control their learning. As such, it is a meeting ground for many other areas of research, including but not limited to: learning, human abilities and individual differences, motivation, teaching, curriculum design, and measurement. Instructional psychology is a theoretical foundation for practices enacted by counsellors, teachers, coaches, social workers, and other human services whose objectives are to design, implement, and adapt environments to help a client or pupil acquire and maintain capabilities not previously achieved. Thus, all students pursuing studies concerned with knowledge and skills for helping others learn can profit from this course.

Illustrative Outline:

#### Education 860 - Contemporary Instructional Psychology

- I Nature of instruction and theories of instruction
  - A. Components: content, task, learner, instructional stimuli
  - B. Views of strategy
    - 1. Instruction as design
    - 2. Instruction as dynamic and responsive problem solving
    - 3. Instruction as communication
  - C. Criteria for theories of instruction
- II The learner
  - A. Learning per se
    - 1. Behavioral analyses
    - 2. Cognitive analyses, including social learning theory
    - 3. Phenomenological analyses
  - B. Intralearner variables
    - 1. Motivational influences
    - 2. Aptitudes, including developmental abilities
- III Content and Task
  - A. Content structures and cognitive structures
  - B. Task analyses components and sequences
  - C. Elements of instructional design
- IV Instructional events
  - A. Instructional stimuli textual, behavioral, learner-supplied
  - B. Cycles of instruction preparation, presentation, practice, feedback
    - 1. From the instructor's perspective
    - 2. From the learner's perspective
  - C. Gauging interactive and longitudinal effects of instruction

#### References

Books

- Anderson, O.R. <u>Quantitative analysis of structure in teaching</u>. New York: Teachers College Press, 1971.
- Anderson, R.C., Spiro, R.J., & Montague, W.E. (Eds.) <u>Schooling and the</u> acquisition of knowledge. Hillsdale, N.J.: Lawrence Erlbaum, 1977.
- Ausubel, D.P., Novak, J.D., & Hanesian, H. Educational psychology: A cognitive view, 2 ed. New York: Holt, Rinehart, & Winston, 1978.
- Bandura, A. <u>Social learning theory</u>. Englewood Cliffs, N.J.: Prentice-Hall, 1977.
- Carroll, J.S. & Payne, J.W. Cognition and social behavior. Hillsdale, N.J.: Lawrence Erlbaum, 1976.
- Cronbach, L.J. & Snow, R.E. <u>Aptitudes and instructional methods</u>. New York: Irvington, 1977.
- Gagné, R.M. The conditions of learning, 3 ed. New York: Holt, Rinehart, & Winston, 1977.
- Gagné, R.M. & Briggs, L.D. <u>Instructional design: Principles and applications</u>, 2 ed. New York: Holt, Rinehart, & Winston, 1979.
- Glaser, R. (Ed.) <u>Advances in instructional psychology</u> (Vol. 1). Hillsdale, N.J.: Lawrence Erlbaum, 1978.
- Glass, A.R., Holyoak, K.J., & Santa, J.L. <u>Cognition</u>. Reading, Mass.: Addison-Wesley, 1979.
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- Kail, R.V. & Hagen, J.W. (Eds.) <u>Memory in cognitive development</u>. Hillsdale, N.J.: Lawrence Erlbaum, 1976.
- Kash, M.M. & Borich, G.D. <u>Teacher behavior and pupil self-concept</u>. Reading, Mass: Addison-Wesley, 1978.
- Kintsch, W. <u>The representation of meaning in memory</u>. Hillsdale, N.J.: Lawrence Erlbaum, 1974.
- Klahr, D. (Ed.) Cognition and instruction. Hillsdale, N.J.: Lawrence Erlbaum, 1976.
- Lesgold, A.M., Pelligrino, J.W., Fokkema, S.D., & Glaser, R. (Eds.) Cognitive psychology and instruction. New York: Plenum, 1978.
- Meichenbaum, D. <u>Cognitive behavior modification: An integrative approach</u>. New York: Plenum Press, 1977.

Resnick, L.B. (Ed.) The nature of intelligence. Hillsdale, N.J.: Lawrence Erblaum, 1976.

Rosenthal, T.L. & Zimmerman, B.J. <u>Social learning and cognition</u>. New York: Academic Press, 1978.

Sieber, J.E., O'Neil, H.F., & Tobias, S. <u>Anxiety, learning, and instruction</u>. Hillsdale, N.J.: Lawrence Erlbaum, 1977.

Wickelgren, W.A. Learning and memory. Englewood Cliffs, N.J.: Prentice-Hall, 1977.

#### Journals

American Educational Research Journal British Journal of Educational Psychology Canadian Journal of Education Cognition Cognitive Psychology Instructional Science Journal of Applied Behavioral Analysis Journal of Educational Psychology Journal of Educational Research Journal of Experimental Education Journal of Experimental Child Psychology Journal of Experimental Psychology: Human Learning and Memory Journal of Research and Development in Mathematics Education Journal of Research in Science Teaching Journal of Verbal Learning and Verbal Behavior Memory and Cognition Psychological Bulletin Psychological Review Review of Educational Research

#### Annual Series

Annual Review of Psychology National Society for the Study of Education Yearbook Review of Research in Education

Date: 27 Oct. 80

## SFU LIBRARY COLLECTION EVALUATION

Reading lists. No. and 1 of titles sourcestor Related materials in general collection: Monographs: 1000+ Serials Subscriptions: 50+ Backfiles: Other: 3. Recommended additions to collection:	<u>3                                    </u>
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Monographs: 75	750.00
New serials subscriptions: 5	75.00
Serials backfiles:	-
Other (specify):	
Total	\$825.00

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