

SIMON FRASER UNIVERSITY

EDUCATION 371-3 TECHNOLOGY FOR SPECIAL NEEDS STUDENTS

INSTRUCTOR: SHIRLEY CAZALET
SPECIAL EDUCATION TECHNOLOGY-BC
SFU (DAVID THOMPSON SEC. SCHOOL)

SUMMER SESSION
M T W R F S
8:30-12:20
JULY 5-14, 1990

Prerequisite: Certified practicing teacher.

Course Description:

This course is designed to provide an introduction to the use of technology to meet the unique learning needs of special education students. The nine day format will consist of lecture, discussion and lab experiences.

The components of the course include:

- 1) Review of relevant research -
 - *Review of relevant research of technology in education.
 - *Rationale for using technology with special needs students.

- 2) Survey of the use of technology in learning assistance and learning disability programs -
 - *Review of the innovative uses of technology for special needs students in British Columbia.
 - *Survey of successful applications of technology for learning assistance and learning disability students throughout Canada and the United States.

- 3) Strategies for integrating technology into the curriculum -
 - *Review and discussion of the integration of technology into the regular and special education curriculum.
 - *Development of strategies for the use of technology to modify and enhance the regular curriculum for special needs students.
 - *Cooperative Learning, Integration and Technology.

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Course Description cont'd:

- 4) Review and evaluation of hardware for special needs students -
 - *Principles of hardware selection.
 - *Introduction to the use of adaptive peripheral devices to assist learning disabled students, e.g. speech synthesizers, touch windows, expanded keyboards.

- 5) Review and evaluation of software for special needs students -
 - *Principles of software and selection.
 - *Guidelines for evaluating software to meet specific needs.
 - *Software review.
 - *Customizing software to meet specific needs.
 - *Creative use of software to meet the unique needs of learning disabled students.
 - *The Learner Profile and the Special Needs Student.

- 6) Introduction to the services and facilities of the Special Education Technology - British Columbia (SET-BC) program -
 - *Presentation on the SET-BC program.
 - *Demonstrations of special education software and hardware.

- 7) Introduction to the emerging technologies and their applications to special education -
 - *Demonstrations of technology involving the use of multi-media.
 - *Demonstrations and access to information through the use of telecommunications featuring Applework and The Apple Global Education Network.
 - *Philosophical Issues: Implications for the Future

Required Readings:

Selected journal articles.