

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: Natural Science

CODE NO.: ED 212-3

PROGRAM: Early Childhood Education (E.C.E.)

SEMESTER: Four

DATE: January 1993

AUTHOR: Jaye Bennett

New: _____ Revision: X

APPROVED: K. DeRosario
K. DeRosario, Dean
School of Human Sciences/Teacher Ed.

DATE: Jan 30/93



Natural Science (ED 212)
Instructor: J. Bennett

COURSE DESCRIPTION

This course will provide students with a working knowledge of natural science and with a knowledge of a process and an open-ended approach to teaching natural science to preschoolers.

COURSE PHILOSOPHY

Most teaching in the preschool is spontaneous and process-oriented. An open-ended, discovery-through-experience approach is used with the children. This is particularly so in the natural science area of the curriculum. This course is designed to provide the student with the maximum opportunity to integrate this teaching strategy into his/her teaching practice by balancing process and content.

COURSE GOALS

- 1) To help individuals become self-directed learners (preschoolers, student-teachers).
- 2) To help the students acquire a working knowledge of natural science.
- 3) To provide the students with experience in presenting natural science learning opportunities to colleagues and preschoolers by using a process-oriented, open-ended approach.

TERMINAL OBJECTIVES

The student will demonstrate ability through course development, project construction and implementation:

1. to recognize needs and interest of the preschool child relating to natural science;
2. to understand the natural science materials and information which will be used in the program (general background knowledge);
3. to identify, locate and utilize available resources for a natural science program;
4. to organize chosen natural science learning environments for nursery school children
5. to select appropriate methods of presentation of natural science experiences using process-oriented, open-ended teaching methods;
6. to apply knowledge, understanding and skill in designing a sequence of natural science learning experiences;
7. to evaluate one's teaching, the learning of the children and the natural science program;
8. to communicate and interact effectively with colleagues by micro-teaching the natural science program designed;
9. to deal with the dynamics of interpersonal relations with colleagues in class and in the nursery school;
10. to integrate theory and practice relating to group development and group process.

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ASSIGNMENTS

- I. TESTS: "Take Home" Tests
 Tests assigned Friday must be returned Monday in class.
 Each Test = 15% - Total 60%

Tests - Unit I (Chapters 1 - 5)	Life Science January 29 - due February 1
Tests - Unit II (chapters 6-10)	Chemistry February 19 - due February 22
Tests - Unit III (chapters 11-15)	Earth & Space Science March 19 - due March 22
Tests - Unit IV (chapters 16-20)	Physics April 16 - due April 19

II SCIENCE - CURRENT EVENTS - 20%

Each student will watch 4 of the following television shows. The student will then hand in a report on the show (brief summary) and a list of ways new information gained from the show may be applied in the preschool setting. 5% each - Total - 20%

<u>Date</u>	<u>T.V. Shows</u>
1. February 15	1. "Beakman's Place" Saturdays 12:00 pm Sundays 7:30 am
2. March 1	2. "Nature of Things" Wednesdays 8:00 pm
3. March 29	3. "Wonderstruck" Thursdays 4:30
4. April 5	4. "Lorne Greene's New Wilderness" Saturdays - 6:30 am Sundays - 6:30 am
	5. "Owl T.V." Saturday - 7:00 am

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III ANIMAL PRESENTATION - 20%

Each student will present to the class pertinent background information relating to an animal which is native to Canada. The student will also prepare a curriculum packet for presentation in the preschool setting. Packets will include **extensive** research re: topic with appropriate bibliography as well as a 2 day intensive curriculum plan. Plan should include Circles(2), Art(2), Books(4), Bulletin Board, Alternative Story(1), and Special Activities (min. 2). Complete Animal Presentation packet is to be handed in on the date of in-class presentation.

IV EVALUATION

Tests	60%
T.V. Reports	20%
Animal	20%
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	100%

TEXT

General Science - Brockway, Gardner and Howe

The student will read the material prior to class discussion in order to fully participate in class discussions and presentations.

COLLEGE GRADING POLICY

90 - 100% = A+
80 - 89% = A
70 - 79% = B
60 - 69% = C
Below 60% = R (repeat)

SPECIAL NOTES

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves right to modify the course as he/she deems necessary to meet the needs of students.