



DEPARTMENT: Education
COURSE OUTLINE – Fall 2022

CD2050: Math, Science, and Social Knowledge – 3 (5.5-0-0) 45 Hours for 13 Weeks

Northwestern Polytechnic respectfully acknowledges that we are located on Treaty 8 territory, the traditional homeland and gathering place for many diverse Indigenous peoples. We are honoured to be on the ancestral lands of the Cree, Dene/Beaver and Métis, whose histories, languages, and cultures continue to influence our vibrant community. We are grateful to have the opportunity to work, learn, and live on this land.

INSTRUCTOR: Terrah Lindsay (780) 539-2047

OFFICE HOURS: By appointment

E-MAIL: tlindsay@nwpolytech.ca

CALENDAR DESCRIPTION:

This course introduces students to science, mathematical, and social knowledge. The course emphasis is on integrating social, physical, and logical mathematical experiences in the preschool child's environment. Students learn to use developmentally appropriate curriculum to facilitate the young child's construction of knowledge in these areas.

PREREQUISITE(S)/COREQUISITE:

Successful completion of all first-year courses OR consent of the department

REQUIRED TEXT/RESOURCE MATERIALS:

N/A

DELIVERY MODE(S):

Online

COURSE OBJECTIVES:

This course introduces students to:

1. How a social-constructivist curriculum can promote and support children's science, mathematical and social knowledge.
2. What scientific inquiry means in early childhood programs.
3. What scientific knowledge, mathematical knowledge and social knowledge means in early childhood programs and describe young children's development of scientific, mathematical and social knowledge.
4. Opportunities to plan developmentally appropriate, child-centered scientific, mathematical and social based curriculum in early childhood programs.

LEARNING OUTCOMES:

On completion of this course the student will be able to:

1. Recognize a social-constructivist curriculum and explain how it supports children's science, mathematical and social knowledge.
2. Outline the steps in scientific inquiry.
3. Recognize scientific knowledge, mathematical knowledge and social knowledge in early childhood programs.
4. Plan, implement and evaluate science based early childhood curriculum.
5. Plan, implement and evaluate mathematical based early childhood curriculum.
6. Plan, implement and evaluate social based early childhood curriculum.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page

<http://www.transferalberta.ca>.

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions.

Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

EVALUATIONS:

All submitted work is graded according to the grading criteria set for the learning activity or assignment submitted.

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is less than C-

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Course Start Date: September 1, 2022 - Course End Date: December 16, 2022

Unit and Dates	Learning Activities Due Date	Assignment Due Date
Unit 1	September 9	September 16
Unit 2	October 7	October 14
Unit 3	November 4	November 11
Unit 4	December 2	December 16

All work is due by 11:30 p.m. on the dates indicated above.

All course work MUST be completed in order to pass this course. Students must receive a grade of C- or above to pass this course. All learning activities and assignments must be submitted in full by the end date in order to pass this course unless an extension has been agreed upon by the student and instructor PRIOR to the course end date.

STUDENT RESPONSIBILITIES:

1. Both the student and the instructor have the right to experience a favourable learning/teaching experience and the responsibility to engage in appropriate behaviour that positively supports learning.
2. To meet all submission deadlines.
3. To participate in discussion boards and Blackboard Collaborate sessions, when requested by instructor.
4. To have the latest version of the course textbook.
5. To have computer hardware and software that meets standards set for online delivery.
6. Student must be familiar with the *Distance Education Student Handbook*, and any regulations, policies and student conduct that apply to students studying via online deliver, as outlined in the college calendar.

See Student Rights and Responsibility for information regarding academic and non-academic conduct.