NORTHWESTERN POLYTECHNIC

DEPARTMENT OF EDUCATION

COURSE OUTLINE – Spring 2025

CD2050 (EC): Science, Math, and Social Knowledge – 3 (3.75-0-0) 45 Hours for 12 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR: Kirsten Clark
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OFFICE: off-campus
E-MAIL: kiclark@nwpolytech.ca
OFFICE HOURS: by appointment

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 by consent of department.

REQUIRED TEXT/RESOURCE MATERIALS: N/A

DELIVERY MODE(S): Online through MyClass

LEARNING OUTCOMES: Upon successful completion of this course, students will be able to:

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

• Plan, implement and evaluate mathematical based early childhood curriculum.

• 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.alberta.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: Your final grade for this course will be based on:

- Learning Activities – 40% of the final grade.
- Assignments – 60% of the final grade.

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**. You must receive a final mark of a C- or above to pass this course.

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	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:

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Unit & Dates	Learning Activities Due Date	Assignment Due Date
Unit 1 Weeks 1-2 May 5 - 17	May 10	May 17
Unit 2 Weeks 3-5 May 18 -June 7	May 31	June 7
Unit 3 Weeks 6-9 June 8 - 28	June 28	July 6
Unit 4 Weeks 10-12 June 29- July 25	July 19	July 25 **no late assignments accepted*

*all work is due by 11:59 p.m. on the dates indicated above.

****All coursework MUST be completed in order to pass this course**; in other words, 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.

Late assignments will be penalized by a dedication of 2% per day up to a maximum of seven days upon which they will receive a "0."

STUDENT RESPONSIBILITIES:

Northwestern Polytechnic expects students' conduct to be in accordance with basic rights and responsibilities. Please refer to the NWP calendar regarding rights and responsibilities.

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at https://www.nwpolytech.ca/about/administration/policies/index.html.

**Note: all Academic and Administrative policies are available on the same page.

ADDITIONAL INFORMATION:

- **Statement on the Use of AI in this Course:** Completing learning activities and assignments is a critical part of learning and essential to the development of your professional practice as an educator. Therefore, in this course, all learners will pledge to use AI tools in ethical and appropriate ways.

  For example, it *would not be* ethical or appropriate to use Generative Artificial Intelligence applications such as ChatGPT to write a draft of a learning activity or assignment and submit it as your own work. The use of Generative Artificial Applications such as ChatGPT without proper citation will be considered plagiarism and treated as such using Northwestern Polytechnic's Academic Misconduct Procedures.

  In comparison, it *would be* ethical and appropriate for you to use AI tools such as Spell Check or Grammarly to identify spelling and grammar errors in your own work so you can correct them before submission.

  If you require additional clarity on the use of AI in this course, please reach out to your instructor.

- **Learning Activities**: Each unit has specific tasks for you to complete. These learning activities are to be submitted to your instructor for feedback and marking by the due date indicated on the course schedule. They allow your instructor to monitor your learning throughout the course and to provide you with helpful feedback.

  Please note that all learning activities in this course are to be completed without the use of Generative AI tools.

  Each learning activity will be looked at by your instructor. However, only one per unit will be graded with feedback. Please read the feedback provided on your learning activity carefully and apply this feedback to the unit's assignment to illustrate your continued learning and growth.

- **Assignments:** These are an important part of your learning. Each assignment is to be submitted to your instructor for feedback and marking by the due date indicated on the course schedule.

  Please note that all assignments in this course are to be completed without the use of Generatie AI tools.