

DEPARTMENT OF EDUCATION

COURSE OUTLINE – Fall 2026

CD2050 (EC): Science, Math, and Social Knowledge – 3 (3-0-0) 45 Hours for 15 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

OFFICE: H212/off campus

OFFICE HOURS: By appointment

PHONE: 780-539-2041

E-MAIL: kiclark@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 by consent of department.

REQUIRED TEXT/RESOURCE MATERIALS: N/A

Students are responsible for all fees associated with ProctorU, a live proctoring service for online exams. Fees are paid when you schedule your exams through ProctorU.

Pricing per exam is as follows:

60 minutes or less - \$16 USD

61-120 minutes - \$25 USD

121 - 180 minutes - \$31 USD

DELIVERY MODE(S): Online through MyClass (asynchronous) from September 2-December 11, 2026

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.transferralberta.alberta.ca>.

** For courses with alpha (letter) grading, a 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:

Unit & Dates	Learning Activities	Assignment
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	Due Date	Due Date
Unit 1 Weeks 1-3 September 2-20	September 13	September 20
Unit 2 Weeks 4-6 September 21 -October 11	October 4	October 11
Unit 3 Weeks 7-10 October 12-November 8	November 1	November 8
Unit 4 Weeks 11-15 November 9 - December 11	December 4	December 11 <i>*no late submissions accepted</i>

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

Late assignments will be penalized by a deduction 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 <https://www.nwpolytech.ca/about/polytechnic-leadership/policies-directory>.

**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 Generative AI tools.

USING PROCTORU:

This course uses ProctorU Live for online exams. To utilize this service, you are required to complete the following steps:

- Create a ProctorU account by clicking the ProctorU link in the course.
- Download and install the Guardian Web Browser, Google Chrome, and the ProctorU extension.
- Schedule each exam at least 3 days (72 hours) in advance. If you miss this deadline, you cannot take the exam.
- Pay for the proctoring service. The fees are exclusively your responsibility and in no event shall be the responsibility of Northwestern Polytechnic.



For more detailed instructions [click here](#), and for video instructions [click here](#).

Before each exam, you must complete a room scan with your web camera, during which you will show your surroundings to a live proctor.

The invigilator will ask to view (but not collect or store) your student identification to verify your identity and will remotely access your computer to unlock the exam. When monitoring your actions via video streaming, the invigilator may possibly record your actions if they suspect academic integrity behavioural issues. You will be verbally notified if/when recording begins.

The personal information collected through ProctorU is collected under the authority of the *Post-Secondary Learning Act* (s. 65) and the *Protection of Privacy Act* (ss. 4(a) & (c)). This information is used to verify your identity, monitor exam conditions, and address potential academic integrity concerns during your online exam.

NWP may input the collected personal information into automated systems to fulfill the purposes stated above. This may include activities such as flagging potential academic integrity concerns for review.

Questions regarding the collection of this personal information can be directed to: The Office of the Vice-President Academic – Northwestern Polytechnic – VPAR@NWPolytech.ca

Records Retention: Any video records of you created by ProctorU will be kept by ProctorU for a maximum of 7 days in order to make a decision about any possible academic integrity infraction, after which time it shall be permanently deleted. All other personal information collected and stored by ProctorU within your profile account will be permanently deleted if the account has not been used after one year.

Consent to Store Personal Information Outside Canada

ProctorU is an American company. An agreement is in place between ProctorU and Northwestern Polytechnic by which ProctorU will take reasonable steps to protect your personal information from unauthorized access and disclosure. Information about how ProctorU protects your privacy can be found in their [Privacy Policy](#).

By using the ProctorU service via Northwestern Polytechnic, you consent to the storage of and access to your personal information outside of Canada.



This consent is in effect from the day you register with ProctorU and expires one year after completion of your exam.

Additional privacy and liability information regarding the use of ProctorU is available on the NWP website.