Yukon University / University of Regina	School of Health, Education, and Human Services
	ESCI 310 **Science Education (K to 5)**
	Winter 2026 **Number of Credits: 3** **Online Delivery**
Course Outline	

INSTRUCTOR: Jordan Reynaud EdD
Email: jreyaud@yukonu.ca
Date: Mondays from January 12- April 13, 2026
Time: 6:00pm-8:50pm
Classroom: Online via Moodle and Zoom

COURSE DESCRIPTION

Science remains a core subject area in the curriculum. This course grounded in the pan-Canadian Science Curriculum Framework, the foundation for Canadian science curricula, will satisfy basic requirements for teaching elementary school science in Canadian provinces and territories.

This course is designed and will be delivered online. Course participants are expected to be engaged as active learners.

COURSE REQUIREMENTS EQUIVALENCY OR TRANSFERABILITY

Receiving institutions determine course transferability. Find further information at:
https://www.yukonu.ca/admissions/transfer-credit

LEARNING OUTCOMES

Students will be able to understand

- The role and purpose of science in the (elementary) school curriculum
- The nature of science (and technology) in relation to society and the environment.
- How children/adolescents construct meaning, develop understanding, and make sense of the world
- How children learn science. Basic concepts and processes of science in relation to their everyday lives
- The philosophy, goals, and organization of the K-12 school science curriculum
- Practice understanding of curriculum, instruction, and assessment strategies
- Design and implementation of learning environments in the elementary school (learning to teach science)
- Basic science classroom management and safety procedures

COURSE FORMAT

The delivery of this course will take place online. Various learning activities include independent readings, small group discussions, and asynchronous meetings. Course readings, material, assignments, and discussion prompts will be posted weekly on Moodle.

EVALUATION

Participation	10%	Ongoing
Discussion Board Posts and Responses	30%	Weekly
Assignments	30%	TBD
In-Class Final Essay	30%	TBD
Total	100%	

COURSE WITHDRAWAL INFORMATION

Refer to the YukonU website for important dates.

TEXTBOOK

No required text. All required readings will be provided by the instructor via Moodle.

ACADEMIC INTEGRITY

Students are expected to contribute toward a positive and supportive environment and are required to conduct themselves in a responsible manner. Academic misconduct includes all forms of academic dishonesty such as cheating, plagiarism, fabrication, fraud, deceit, using the work of others without their permission, aiding other students in committing academic offences, misrepresenting academic assignments prepared by others as one's own, or any other forms of academic dishonesty including falsification of any information on any Yukon University document.

Please refer to Academic Regulations & Procedures for further details about academic standing and student rights and responsibilities.

ACCESSIBILITY AND ACADEMIC ACCOMMODATION

Yukon University is committed to providing a positive, supportive, and barrier-free academic environment for all its students. Students experiencing barriers to full participation due to a visible or hidden disability (including hearing, vision, mobility, learning disability, mental health, chronic or temporary medical condition), should contact Accessibility Services for resources or to arrange academic accommodations: access@yukonu.ca.

TOPIC OUTLINE

- Science as a way of knowing
- Cross-cultural teachings and their implications for school learning environments
- Discourses of assessment and evaluation and their implications for teaching and learning science
- The place and positioning of science in the broader school curriculum – issues of appropriation, inclusion, social justice, equity, diversity, and literacy
- The meaning of science experiences in personal and social development
- The role of language in science learning and teaching
- The ways science is constructed interactionally among participants in science learning (communities)