



DEPARTMENT OF HUMAN SERVICES  
COURSE OUTLINE - FALL 2020  
CD 2050 MATH, SCIENCE AND SOCIAL KNOWLEDGE  
3(5.5-0-0) 45 HOURS FOR 8 WEEKS

*To be recognized for educational excellence in the fields of early learning & childcare and educational assistant training.*

Grande Prairie Regional College 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 B.Sc., M.S.

**OFFICE:** H202 **PHONE:** 539-2047

**EMAIL:** [tlindsay@gprc.ab.ca](mailto:tlindsay@gprc.ab.ca)

**OFFICE HOURS:** Tuesday and Thursdays from 12:00 - 12:30

Please contact me by e-mail at any time, typically emails are answered within 24 hours during the business week.

**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:** The readings required for this course are available on myClass including:

Canadian Child Care Federation (2010). Foundations for numeracy: An evidence-based toolkit for early learning practitioners. Toronto: CCCF and CL/CLRN.

Early Mathematics Literacy for Preschoolers who are Blind or Visually Impaired. Janis Morrison and Susan Guilbault, Education Consultants for the Visually Impaired, AB Education 2010.

*\*\*There may be additional costs incurred for materials for assignments*

## **DELIVERY MODE(S):**

Classroom instruction will include a combination of lectures, discussions, small and large group work. Audio-visual materials and other resources will also be used.

## **OBJECTIVES:**

Students will gain an understanding of young children's development - specifically with physical, social and logical mathematical knowledge.

Students will learn about planning experiences that facilitate children's development in the above areas.

## **LEARNING OUTCOMES:**

Upon successful completion of this course, the student will be able to:

- Describe/identify young children's development of physical, social, and logical mathematical knowledge
- use a developmentally appropriate approach to plan and implement a variety of experiences that will facilitate the child's development of physical, social, and logical mathematical knowledge

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"Flight: Alberta's Early Learning and Care Framework", is a leading curriculum for the early learning and child care profession. Each course in GPRC's Early Learning and Child Care program will encompass at least one of the areas from the framework such as: the vision, values, purpose and guiding principles of the framework, the curriculum core concepts from the framework: (The Image of the Child: A Mighty Learner and Citizen, A Practice of Relationships: Your Role as an Early Learning and Child Care Educator which includes curriculum meaning making as co-learners, co-researchers and co-imaginer of possibilities, Mighty Learners: Nurturing Children's Dispositions to Learn, Co-inquiry, Responsive Environments: Time, Space, Materials and Participation, Transitions and Continuities: Supporting Children and Families through Change), discussion of Holistic Play-Based Goals for Children's Responsive Care, Play, Learning and Development and Children's Dispositions to Learn, Reflection and Planning Guides as well as Curriculum Learning Stories.

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## **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 (How you get marks):		Add dates from attached schedule
In class assignments/activities Includes Nature Walk	15%	
Math Assignment	25%	
Science Assignment*	20%	
Social Knowledge Assignment*	19%	
Math Quiz	7%	
Science Quiz	7%	
Social Quiz	7%	

You may choose to do the Science assignment with one or two other people - 3 people per group. For the Social Knowledge assignment, you will be assigned to a group. ALL assignments must be completed in order to receive credit in the course.

For each quiz, you will complete the first part on your own.

- Part one will consist of true/false, multiple choice, matching.
- IF YOU RECEIVE LESS THAN 60% on part one that mark will be your mark for the quiz.
- If you receive 60% or greater on part one of the quiz, you will receive an average of part one and part two.
- Part two of the quiz will be completed in assigned groups and will be short/long answer questions.

### GRADING CRITERIA:

(The following criteria may be changed to suite the particular course/instructor)

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:**

*Please see attached for course schedule (note, the schedule is tentative and subject to revision).*

## **STUDENT RESPONSIBILITIES:**

It is the right of the student and of the instructor to a favorable learning/teaching environment. It is the responsibility of the student and the instructor to engage in appropriate adult behaviors that positively support learning. This includes treating others with dignity and respect and following the expectations outlined below.

## **CLASSROOM**

**Regular, PUNCTUAL attendance.**

- Learning from other students' notes or from myClass is not optimal.
- If you are late to class, you miss important information about assignments, homework and quizzes. It is also disruptive to other students' learning.
- Remain in class for the duration.
- If you miss a class, refer to myClass or check in with another student.  
You are responsible for your learning.

**Children are not considered to be part of the classroom learning environment, please make alternate arrangements for your child(ren).**

**Turn off cell phones.**

- Studies indicate that cell phones not only interfere with your learning, but also the students around you.

## **QUIZZES/EXAMS**

**Write in-class quizzes/exams on the date and time they are scheduled.**

- If an emergency arises that causes you to be unable to write the quiz, please call or email your instructor to leave a message BEFORE the exam begins.

## **ASSIGNMENTS**

**Hand in assignments via myClass on the date indicated, by 11:30 pm unless otherwise specified.**

- Instructors reserve the right to make exceptions to this rule in extenuating circumstances on a case by case basis.

- ALL assignments will be typed, double-spaced (or follow the provided template) and will include a cover page with your name, course number and assignment name.

### OUTSIDE OF CLASS

- Complete assigned readings and assignments, participate in group projects, check myClass
- Notes, handouts etc. are on myClass. It is your responsibility to print these BEFORE class.
- **Email:** Students may contact the instructor by email or phone. Emails will be answered within one *business* day outside of stated office hours.
- **Email correspondence to your instructor must be sent from your GPRC student email account.** Emails should be professionally formatted and include a subject, correct spelling and grammar, and a reference to course material and/or textbook pages, etc.

It is the student's responsibility to become familiar with the basic student rights and responsibilities found in the College calendar

### **STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Calendar at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>

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