

DEPARTMENT OF HUMAN SERVICES COURSE OUTLINE - FALL 2014 CD 2050 MATH, SCIENCE AND SOCIAL KNOWLEDGE

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

INSTRUCTOR:	Terrah Lindsay B.Sc., M.S.	
OFFICE:	H134 PHONE:	539-2047
EMAIL:	<u>tlindsay@gprc.ab.ca</u>	
OFFICE HOURS:	Mondays 11:30 - 12:30, 7	Fuesdays and Thursdays: 12:00 - 12:30

PREREQUISITE(S)/COREQUISITE:

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

TIME: Mondays 1:00-3:50, Tuesday/Thursday 8:30 -10:00

LOCATION: L229 and B201

REQUIRED TEXT/RESOURCE MATERIALS: Worth, K., & Grollman, S. (2003). *Worms, shadows, and whirlpools: Science in the early childhood classroom.* Washington, DC: National Association for the Education of Young Children.

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

**There may be additional costs incurred for photocopying and materials for presentation assignments

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.

CREDIT/CONTACT HOURS: 3(3-0-0) / 45 hours

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:

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

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

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE				
GRADING CONVERSION CHART				
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation	
A ⁺	4.0	90 - 100		
A	4.0	85 - 89	EXCELLENT	
A⁻	3.7	80 - 84	ETDET CLASS STANDING	
B⁺	3.3	77 - 79	FIRST CLASS STANDING	
В	3.0	73 - 76	(00)	
B⁻	2.7	70 - 72	GOOD	
C+	2.3	67 - 69	CATTLE ACTODY	
С	2.0	63 - 66	SATISFACTORY	
C	1.7	60 - 62	MINIMAL PASS	
D⁺	1.3	55 - 59	E A TI	
D	1.0	50 - 54	FAIL	
F	0.0	0 - 49	FAIL	
WF	0.0	0	FAIL, withdrawal after the deadline	

TRANSFERABILITY:

** 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

GRADING CRITERIA: Minimum pass in the Department of Human Services is C-effective August, 2012.

EVALUATIONS (How you get marks):

Invitation for Learning MATH	20%
Invitation for Learning SCIENCE FAIR	30%
Pinterest Resource	15%
Nature Walk	15%
In class assignments	20%

ATTENDANCE:

Regular attendance is crucial for student success. More than 20% absenteeism may constitute a failure except for medical or extenuating circumstances in which a doctor's letter may be required.

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, but is not limited to treating others with dignity and respect. Cell phones are to be used outside of class time. Students are responsible for missed class time, including the gathering of resources handed out during class. Be sure to check moodle.

The college expects students' conduct to be in accordance with basic rights and responsibilities. Refer to the College Admissions Guide at http://www.gprc.ab.ca/programs/calendar/ or www.gprc.ab.ca/about/administration/policies/

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <u>http://www.gprc.ab.ca/programs/calendar/</u> or the College Policy on Student Misconduct: Plagiarism and Cheating at <u>www.gprc.ab.ca/about/administration/policies/**</u>

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

COURSE SCHEDULE/TENTATIVE TIMELINE:

The following course schedule is tentative and subject to revision.			
September 4 (R)	Course Introduction Defining Mathematical, Physical and Social Knowledge		
September 8 (M) September 9 (T) September 11 (R)			
•	<i>Nature Walk - Terrah</i> The adult's role in constructing mathematical knowledge		
September 22 (M) September 23 (T) September 25 (R)			
September 29 (M) September 30 (T) October 1 (R)	Invitation for Learning Math/Nature Walk The adult's role in constructing physical knowledge		
October 6 (M) October 7 (T) October 9 (R)	Invitation for Learning Math/Nature Walk		
October 13 (M) October 14 (T) October 16 (R)	Thanksgiving, no class What is social knowledge? Sharing Invitations for Learning MATH and Nature Walk		
October 20 (M) October 21 (T) October 23 (R)	Switch with Tanya - you have Tanya's class Social knowledge curriculum		
October 27 (M) October 28 (T) October 30 (R)	Science Fair Sharing Invitations for Learning SCIENCE		