



**DEPARTMENT OF HUMAN SERVICES**  
**COURSE OUTLINE – FALL 2011**  
**CD 2050 MATH, SCIENCE, AND SOCIAL KNOWLEDGE**

**INSTRUCTOR:** Andrea Thiessen    **PHONE:** Office (780) 539-2708  
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**OFFICE**

**HOURS:** As posted and by appointment

**PREREQUISITE(S)/COREQUISITE:**

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

**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

**COURSE DESCRIPTION:**

The focus of this course is understanding how children construct Math, Science and Social Knowledge.

**CREDIT/CONTACT HOURS:**

3 Credit/45 Hours

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

Classes will be comprised of lectures, independent and small group tasks, class discussion, and guest speakers.

## **OBJECTIVES:**

Upon successful completion of this course, students 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

## **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:**

A final grade of D (1.0) must be obtained in order to pass this course.

<b>ALPHA GRADE</b>	<b>4-POINT EQUIVALENCE</b>	<b>DESCRIPTOR</b>
A+	4.0 (90- 100 )	Excellent
A	4.0 ( 85-89 )	
A-	3.7( 84-80)	First Class Standing
B+	3.3 (79-75)	
B	3.0 ( 74- 71)	Good
B-	2.7( 70-66)	
C+	2.3 ( 67-69 )	Satisfactory
C	2.0( 64-66)	
C-	1.7( 60-63)	
D+	1.3 (55 59 )	Poor
D	1.0 (50 -54 )	Minimal Pass
F	0.0 ( 49 – 0 )	Failure

## **EXAMINATIONS:**

There are no formal examinations in this class.

### **STUDENT RESPONSIBILITIES:**

Refer to the College Admissions Guide at

<http://www.gprc.ab.ca/programs/calendar/admissions-guide-2011-2012/htm/49.html>

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

Refer to the College Admissions Guide at

<http://www.gprc.ab.ca/programs/calendar/admissions-guide-2011-2012/htm/49.html>

### **COURSE SCHEDULE/TENTATIVE TIMELINE:**

<b>Date</b>	<b>Topic</b>	<b>Readings/AV</b>	<b>Assignments</b>
Week 1	Introductions		TBD 2 <sup>nd</sup> Week of Classes Assignment #1 = 30% Assignment #2 = 30% Assignment #3 = 30% Attendance = 10%
Week 2-4	Math Concepts in Early Childhood Settings	TBD	
Weeks 5-7	Science Concepts in Early Childhood Settings	TBD	
Week 8	Application of theory to practice for Math, Science, and Social Knowledge in Early Childhood Settings		