

# EC 290 Math and Science in Early Childhood Education

Professor Carol Parsons			
Class Hour:	ONLINE	Classroom:	ONLINE
Office:	Click here to enter text.	Phone:	714-948-3954
Office Hours/ Consultation: Click here to enter text.		E-mail:	Steve-parsons@sbcglobal.net
TA: TBA (To Be Arranged)		Credit Unit: 3	

# A. Bethesda University Mission Statement

Bethesda University is a Christ-centered community of higher education preparing Korean/English speaking men and women with professional competence, academic excellence, and spiritual integrity to be servant leaders in the Church, community, and global society.

# B. Relationship of Course to Bethesda University's Mission

This course prepares adults and future educators to become spiritual and intellectual professional in the field of Early Childhood.

## C. Course Description

This course will teach curriculum development in the field of Math and Science for Early Childhood Educators. This course will teach STEM: Science, Technology, Engineering and Math curriculum and activities, preparing future teachers with the knowledge of STEM and Mathematic Standards.

# D. Course Objectives & Student Outcomes

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	<b>Expected Student Outcomes</b>	Assessment Used to Measure Outcomes
Spiritually	Students will write meaning of spiritual	Weekly writing describing the meaning
	quote of the week.	of the spiritual quote in their own words
Intellectually	Students will create intellectual learning	Work with children in classroom using

	activities for children using STEM and	Science, Technology Engineering and
	the purpose of STEM.	Math.
Socio-	Students will create curriculum	Creating STEM Activities developing the
Emotionally	developing social-emotional growth.	whole child.
Vocationally	Students will learn to create activities,	Class Project- Creating a lesson and
	and lesson plans for developing Science	Lesson plans using Science and Math
	and Math skills.	Activities.

## E. Teaching/Learning Methods

Learning methods include lecture and hands-on activities. The students will experiment and engage in teaching activities with children in the early childhood.

# F. Required Textbook(s)

No.	Title	Author	Publisher	Library code	Year
1	Teaching STEM in the Moomaw, Sally Re		Redleaf		2013
1	Early Years	EdD	Press		2013

# G. Recommended Reading and Other Course Resources (All reserved for reading)

Please, provide at least 5-10 recommended book on the subject and prioritize by importance and popularity. The library will try to buy those books if not already there.

No.	Title	Author	Publisher	Library code	Year
1	A head Start on Science- Encouraging a sense of Wonder	Ritz, William C.	National Science Teachers Associations		2007
2	California Preschool Foundations Volume 1 and 3	California Department of Education	CDE Press		2010
3	ECERS- Early Childhood Environmental Rating Scale	Harms, Clifford, and Cryer	Teachers College Press		2005
4	Worms, Shadows and Whirlpools- Science in	Worth, Karen, and Grollman	Educational Development		2003

	the Early Childhood		Center, Inc.	
	classroom			
	California Preschool	California		
5	Learning Frameworks	Department of	CDE Press	2010
	Volumes 1 and 3	Education		

# H. Course Calendar/Schedule, include the following

N	Date	Theme	Reading	Assignments
1	<mark>8/24/15</mark>	<b>Inroductions and Syllabus</b>	<mark>Syllabus</mark>	
		Last Day to Request Add/Drop is	Friday of Firs	t Week
2	<mark>8/31/15</mark>	STEM Education	Chapter 1	
3	<mark>9/7/15</mark>	STEM Learning Centers	Chapter 2	
4	9/14/15	Lecture and Activties STEM throughout the Classroom	Chapter 3	
5	<mark>9/21/15</mark>	STEM Outdoors	Chapter 4	
6	<mark>9/28/15</mark>	STEM in Project-Centered Curriculum	Chapter 5	
7	<mark>10/5/15</mark>	Quick STEM Activities	Chapter 6	
8	10/12/15	STEM Based Field trips	Chapter 7	
Last Day to Request Grade Withdrawal "W" is Friday of 8 <sup>th</sup> Week			y of 8 <sup>th</sup> Week	
9	10/19/15	Mathematics Standards - Number and Operations		
10	10/26/15	Mathematics Standards; Patterns, Functions and Algebra		
11	11/2/15	Lecture- Mathematics Standards; Geometry and Spatial Sense		
12	<mark>11/9/15</mark>	Mathematics Standards- Measurement		
13	11/16/15	Mathematics Standards- Data Analysis and Reasoning		
14	11/23/15	Thanksgiving Break		
15	11/30/15			Due- Video tape Lesson
Last Day to Request Grade Incomplete "I" is Friday of 15 <sup>th</sup> Week				
16	12/7/15	Final		

# I. Assignements

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## J. Evaluation/Assessment Rationale for Grade Determination

## 1. Grade Assessment

Attendance and Lectures 20 pts.
Participation and Lesson Plans 40 pts.
Video lesson with children or child 40 pts.

Total----- 100 pts.

#### 2. Grade definition

A Excellent

B Good

C Satisfactory

D Poor

F Failure

## 3. Grade scale

Letter Grade	Numeric Grade	Grade Points
A	95-100	4.0
A-	90-94	3.7
B+	87-89	3.3
В	84-86	3.0
B-	80-83	2.7
C+	77-79	2.3
С	74-76	2.0
C-	70-73	1.7
D+	67-69	1.3
D	64-66	1.0
D-	60-63	0.7
F	59 or below	0

## K. Course Policies

1. Attendance, Preparation, and Participation:

Students are required to view all lectures provided on the Bethesda University Moodle.

#### 2. Deadlines:

All course work is due on the assigned dates. Students who fail to submit assignments on time will be subject to the course late grading policy. In all cases unless stated by instructor, all work must be completed and turned in by December 7, 2015.

3.	Advance Assistance:
	Click here to enter text.
4.	Assignment Options:
	Click here to enter text.
5.	Make up work:
	Click here to enter text.
6.	Extra-credit work:
	Click here to enter text.
7.	Emergency procedures:
	Click here to enter text.
8.	Other policies on Withdrawal and Grade Permanence, Academic Integrity, and Appeals and Grievance procedures refer to the Student Handbooks and Catalog.
	Click here to enter text.
L.	Support Services
	Click here to enter text.
M.	Bibliography
	Click here to enter text.