朝陽科技大學 092學年度第2學期教學大綱
Science and Math Conceptes for Young Children 幼兒自然科學與數概念

當期課號	8002	Course Number	8002
授課教師	賴羿蓉	Instructor	LAI,YI RUNG
中文課名	幼兒自然科學與數概念	Course Name	Science and Math Conceptes for Young Children
開課單位	師資培育中心(幼教學程)一A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	本課程的主要目的在爲學生們介紹一項動手做且以活動爲主的幼兒數及自然科學課程；課程之原則在於幼兒知識多經由直接經驗獲取。此外，幼兒解決問題能力之建立亦是課堂討論之重點。本課程除課堂講授外，學生亦需以上述原則設計適合幼兒操作之練習或遊戲以達實際學習之效果。幼兒數概念亦將以蒙特梭利數的教學在本課程內加強之。	Objectives	The purpose of this course is serving as a guide to a hands-on, activity-based program in science and math teaching for student teachers. The science and math activity to be taught in the course is based on the belief that young children build on their own knowledge from their own experiences. Besides, the ability of young children's problem solving skills is also a main topic to be discussed in the class. Therefore, student teachers have to experience and to design such courses for young children based on these theories. The math concept is also going to reinforced by the Montessori math method in the course.
教材	講述,小組討論,分組報告	Teaching Materials	narration, group discussion, group report
成績評量方式	小組合作(20%);小組報告(60%);小組期末總報告(20%)	Grading	group cooperation 20%, group report 60%, final group project 20%
教師網頁	_		
教學內容	（一）讓學生了解幼兒自然科學與數學概念之發展。 （二）讓學生藉由設計幼兒自然科學與數學概念的教學活動,學習如何將理論轉換至教學實務中。 （三）探究幼兒自然科學與數學概念之相關課題。	Syllabus	1. Let students understand the development of child's science and math. 2. Let students transfer the theory of child's science and math conception into practice by the activity design. 3. Explore the related topic of child's science and math.

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