# 朝陽科技大學 098學年度第2學期教學大綱
# Theory and Practice in Math Education for Montessori 蒙特梭利算數教育理論與實務

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| **當期課號** | 2457 | **Course Number** | 2457 |
| **授課教師** | 劉冷琴 | **Instructor** | LIU,LENG CHIN |
| **中文課名** | 蒙特梭利算數教育理論與實務 | **Course Name** | Theory and Practice in Math Education for Montessori |
| **開課單位** | 幼兒保育系(四日)二B | **Department** | |
| **修習別** | 選修 | **Required/Elective** | Elective |
| **學分數** | 2 | **Credits** | 2 |
| **課程目標** | 本課程介紹蒙特梭利算數教育理論基礎與教學原則，示範如何運用教具介紹幼兒一至十的數概念、十進位的概念及正確的計數技巧，並透過實際活動協助幼兒建立加減乘除四則運算的觀念。 | **Objectives** | The course is aimed to introduce fundamental theories and teaching principles of Montessori math education and concepts of numbers (1 to 10, counting, etc.) through demonstration and manipulation of teaching materials. Hand-on activities are also provided to help children learn concepts of addition, deduction, multiplication, and division. |
| **教材** | 專題演說<br>展示教具<br>小組討論與報告 | **Teaching Materials** | （lecture）<br>（presentation）<br>（ discussion and report） |
| **成績評量方式** | 出席（Absent）20%<br>教具製作（Material making）20%<br>讀書報告（Report）20%<br>作業編寫（Albums write）40% | **Grading** | （Absent）20%<br>（Material making）20%<br>（Report）20%<br>（Albums write）40% |
| **教師網頁** | http://www.cyut.edu.tw/~christina | | |
| **教學內容** | 0--10的概念建立<br>十進位（金黃色串珠）<br>連續數 ，跳數<br>四則運算記憶與心算 | **Syllabus** | Numeration<br>Overview of Base Ten（Golden Beads）<br>Liner Counting<br>Skip Counting<br>Four Operation<br>Memorization of Facts |

尊重智慧財產權，請勿非法影印。