

Department of Mathematics and Information Education  
**Specialty Module for Mathematics and Teaching Enhancement**  
 Curriculum Structure & Course Title

113 Academic Year

| Course title                                              | 科目名稱     | Required/<br>Elective | Credits | Grade | Remark                                                          |
|-----------------------------------------------------------|----------|-----------------------|---------|-------|-----------------------------------------------------------------|
| Linear Algebra (I)                                        | 線性代數(一)  | Required              | 3       | 1-1   |                                                                 |
| Calculus (I)                                              | 微積分(一)   | Required              | 3       | 1-1   |                                                                 |
| Calculus (II)                                             | 微積分(二)   | Required              | 3       | 1-2   | Students may qualify with successful completion of Calculus (I) |
| Conceptual Development in Mathematics                     | 數學概念發展   | Required              | 3       | 2-1   |                                                                 |
| Teaching and Assessment in Mathematics                    | 數學教學與評量  | Required              | 2       | 3-1   |                                                                 |
| Research in Mathematics Curriculum                        | 數學課程研究   | Required              | 3       | 3-2   |                                                                 |
| Introduction of Mathematics                               | 數學導論     | Elective              | 3       | 1-1   |                                                                 |
| Introduction to Mathematics Education                     | 數學教育概論   | Elective              | 2       | 1-2   |                                                                 |
| Mathematics Education for Early Childhood                 | 幼兒之數學教育  | Elective              | 2       | 2-1   |                                                                 |
| Study of Problem Solving in Mathematics                   | 數學解題研究   | Elective              | 2       | 2-2   |                                                                 |
| Teaching Aids for Mathematics                             | 數學教學媒體   | Elective              | 3       | 3-2   |                                                                 |
| Curriculum Design in Mathematics                          | 數學課程設計   | Elective              | 3       | 4-1   |                                                                 |
| Innovation and Design in Mathematics Teaching             | 數學教學創新設計 | Elective              | 2       | 4-2   |                                                                 |
| Required 17 credits, Elective 7 credits, Total 24 credits |          |                       |         |       |                                                                 |