


**國立東華大學**  
**教學計劃表 Syllabus**

|                                                                                                                                                            |                                                                                                                                         |                             |    |                                    |                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----|------------------------------------|------------------------------------------------------------------------------------------------|
| 課程名稱(中文)<br>Course Name in Chinese                                                                                                                         | 中等數學領域教學專長教材教法1                                                                                                                         |                             |    | 學年/學期<br>Academic Year/Semester    | 114/1                                                                                          |
| 課程名稱(英文)<br>Course Name in English                                                                                                                         | Instructional Materials and Methods for Mathematics Area 1                                                                              |                             |    |                                    |                                                                                                |
| 科目代碼<br>Course Code                                                                                                                                        | EP__22070                                                                                                                               | 系級<br>Department & Year     | 師培 | 開課單位<br>Course-Offering Department | 師資培育中心-中等教育                                                                                    |
| 修別<br>Type                                                                                                                                                 | 必修 Required                                                                                                                             | 學分數/時間<br>Credit(s)/Hour(s) |    | 2.0/2.0                            |                                                                                                |
| 授課教師<br>Instructor                                                                                                                                         | /張飛黃                                                                                                                                    |                             |    |                                    |                                                                                                |
| 先修課程<br>Prerequisite                                                                                                                                       |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 課程描述 Course Description                                                                                                                                    |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 藉由模擬授課的方式，使學生掌握基本的教學技巧。並藉由相互間的討論，學習如何進一步的改進教學方式並提升教學能力。                                                                                                    |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 課程目標 Course Objectives                                                                                                                                     |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 針對素養導向的新課程綱要所希望達成的目標—『將數學融入生活中，使學生能活用課堂所學的數學知識解決生活中實際遇到的問題』這樣的教學理念做討論，分析新課程綱要與原課程綱要的差異。藉由模擬授課的方式，使學生瞭解如何將新課程綱要的精神下融入教學過程中。並藉由相互間的討論，學習如何進一步的改進教學方式並提升教學能力。 |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 核心能力<br>Basic Learning Outcomes                                                                                                                            |                                                                                                                                         |                             |    |                                    | 課程目標與核心能力<br>相關性<br>Correlation between<br>Course Objectives<br>and Basic Learning<br>Outcomes |
| A                                                                                                                                                          | 具備關懷與熱忱教育理念與實務應用的素養Students embrace concepts of caring and enthusiastic educational which they can apply in practice.                   |                             |    |                                    |                                                                                                |
| B                                                                                                                                                          | 具備發展學習者需求課程及多元適性評量的素養Students can develop curricula and multiple adaptive assessment types to meet learners' needs.                     |                             |    |                                    | ●                                                                                              |
| C                                                                                                                                                          | 具備建立正向學習與適性輔導的素養Students are able to establish positive learning and engage in adaptive counseling.                                     |                             |    |                                    | ●                                                                                              |
| D                                                                                                                                                          | 具備並認同實踐教師專業倫理的素養Students can both recognize and practice teacher professional ethics.                                                   |                             |    |                                    |                                                                                                |
| E                                                                                                                                                          | 具備科技創新、跨域視野、社會責任、終身學習的素養Students engage in technological innovation, interdisciplinarity, social responsibility, and lifelong learning. |                             |    |                                    | ●                                                                                              |
| 圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated                                                                                     |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 授課進度表 Teaching Schedule & Content                                                                                                                          |                                                                                                                                         |                             |    |                                    |                                                                                                |
| 週次Week                                                                                                                                                     | 內容 Subject/Topics                                                                                                                       |                             |    |                                    | 備註Remarks                                                                                      |
| 1                                                                                                                                                          | 共同觀課                                                                                                                                    |                             |    |                                    |                                                                                                |
| 2                                                                                                                                                          | 模擬教學                                                                                                                                    |                             |    |                                    |                                                                                                |
| 3                                                                                                                                                          | 模擬教學                                                                                                                                    |                             |    |                                    |                                                                                                |

|    |                  |  |
|----|------------------|--|
| 4  | 模擬教學             |  |
| 5  | 模擬教學             |  |
| 6  | 教學觀摩             |  |
| 7  | 教學觀摩             |  |
| 8  | 校外參訪             |  |
| 9  | 教學觀摩與校外參訪心得分享、討論 |  |
| 10 | 模擬教學             |  |
| 11 | 模擬教學             |  |
| 12 | 模擬教學             |  |
| 13 | 模擬教學             |  |
| 14 | 模擬教學             |  |
| 15 | 模擬教學             |  |
| 16 | 模擬教學             |  |
| 17 | 模擬教學             |  |
| 18 | 心得分享、座談          |  |

#### 教 學 策 略 Teaching Strategies

- ☐ 課堂講授 Lecture
 ☒ 分組討論 Group Discussion
 ☐ 參觀實習 Field Trip  
☐ 其他 Miscellaneous:

#### 教 學 創 新 自 評 Teaching Self-Evaluation

##### 創新教學(Innovative Teaching)

- ☐ 問題導向學習(PBL)
 ☐ 團體合作學習(TBL)
 ☐ 解決導向學習(SBL)  
☐ 翻轉教室 Flipped Classroom
 ☐ 磨課師 Moocs

##### 社會責任(Social Responsibility)

- ☐ 在地實踐 Community Practice
 ☐ 產學合作 Industry-Academia Cooperation

##### 跨域合作(Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching
 ☐ 跨院系教學 Inter-collegiate Teaching

- ☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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| 學期成績計算及多元評量方式 Grading & Assessments                                                                                                                   |                    |                    |          |          |          |          |          |          |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|----------|----------|----------|----------|----------|----------|----|
| 配分項目<br>Items                                                                                                                                         | 配分比例<br>Percentage | 多元評量方式 Assessments |          |          |          |          |          |          |    |
|                                                                                                                                                       |                    | 測驗<br>會考           | 實作<br>觀察 | 口頭<br>發表 | 專題<br>研究 | 創作<br>展演 | 卷宗<br>評量 | 證照<br>檢定 | 其他 |
| 平時成績(含出缺席)<br>General Performance<br>(Attendance Record)                                                                                              | 100%               |                    |          | ✓        | ✓        |          |          |          |    |
| 期中考成績 Midterm Exam                                                                                                                                    |                    |                    |          |          |          |          |          |          |    |
| 期末考成績 Final Exam                                                                                                                                      |                    |                    |          |          |          |          |          |          |    |
| 作業成績 Homework and/or<br>Assignments                                                                                                                   |                    |                    |          |          |          |          |          |          |    |
| 其他 Miscellaneous<br>(_____)                                                                                                                           |                    |                    |          |          |          |          |          |          |    |
| 評量方式補充說明<br>Grading & Assessments Supplemental instructions                                                                                           |                    |                    |          |          |          |          |          |          |    |
|                                                                                                                                                       |                    |                    |          |          |          |          |          |          |    |
| 教科書與參考書目(書名、作者、書局、代理商、說明)<br>Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)                                            |                    |                    |          |          |          |          |          |          |    |
| 高中數學科教材                                                                                                                                               |                    |                    |          |          |          |          |          |          |    |
| 課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)<br>Teaching Aids & Teacher's Website(Including online teaching information.<br>Personal website can be listed here.) |                    |                    |          |          |          |          |          |          |    |
|                                                                                                                                                       |                    |                    |          |          |          |          |          |          |    |
| 其他補充說明 (Supplemental instructions)                                                                                                                    |                    |                    |          |          |          |          |          |          |    |
|                                                                                                                                                       |                    |                    |          |          |          |          |          |          |    |