

 國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	普通數學AB			學年/學期 Academic Year/Semester	115/1
課程名稱(英文) Course Name in English	General Mathematics				
科目代碼 Course Code	GC__6289AB	系級 Department & Year	校核心	開課單位 Course-Offering Department	通識教育中心
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)		3.0/3.0	
授課教師 Instructor	/艾尼克				
先修課程 Prerequisite					
課程描述 Course Description					
本課程主要目標是回顧高中一些數學內容與概念，並涵蓋解題方法、計算與證明，補強基礎數學能力，使能銜接大學微積分等數理課程。 The main goal of this course is to review some high school mathematics content and concepts, cover problem-solving methods, calculations and proofs, strengthen basic mathematical skills, and enable students to transition to university-level calculus and other mathematical courses.					
課程目標 Course Objectives					
本課程主要目標是回顧高中的一些數學概念，並以此作為進一步學習相關數學課程的基礎。 The purpose of this course is to review some of the mathematical idea given in the high school and provide a foundation for study related mathematical courses.					
(校)核心能力 Learning Outcomes					課程目標與校核心能力相關性 Correlation between Course Objectives and Basic Learning Outcomes
A	自主學習與創新思考Autonomous Learning and Creative Thinking				○
B	康健身心Physical Fitness and Mental Balance				○
C	互動、溝通與解決問題Interactive Communication and Problem Solving				○
D	情藝美感Artistic Feeling and Aesthetic Perception				○
E	文化素養與尊重差異Cultural Literacy and Respect for Differences				○
F	在地關懷與公民責任Local Commitment and Civic Responsibility				○
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	回顧高中數學一些解題方法 Reviewing some problem-solving methods in high school mathematics				
2	數學歸納法 Mathematical reasoning				
3	數學歸納法 Mathematical reasoning				
4	實數與其相關性質 Real numbers and their related properties				

5	實數與其相關性質 Real numbers and their related properties	
6	實數與其相關性質 Real numbers and their related properties	
7	多項式函數 Polynomials	
8	多項式函數 Polynomials	
9	期中考試週 Midterm Exam	
10	多項式函數 Polynomials	
11	三角函數 Trigonometric Functions	
12	三角函數 Trigonometric Functions	
13	三角函數 Trigonometric Functions	
14	向量 Vectors	
15	向量 Vectors	
16	向量 Vectors	
17	期末考試週 Final Exam	

彈性 教學 規劃 Flexible Teaching Plan	請勾選(至少需勾選1 個項目): Please tick the box(es). (At least one item is required.): ☐ 問題討論 Problem-based Discussion ☐ 翻轉教學 Flipped Classroom ☐ 展演實作 Performance / Practical Presentation ☐ 校外參訪 Off-campus Visit ☒ 講座活動 Lecture / Seminar ☐ 線上作業 Online Assignments ☐ 自主學習 Self-directed Learning ☐ 課業輔導 Academic Support ☐ 實驗操作 Experiment Operation ☐ 遠距教學(同步) Distance Learning (Synchronous) ☐ 遠距教學(非同步) Distance Learning (Asynchronous) ☐ 其他(請填寫) Others (Please specify.): 備註: 本校學期週數自115 學年度起調整為17 週, 為符合1學分18 小時之原則, 請教師規劃安排彈性教學。 Note: From the 115th academic year, the semester will be 17 weeks. Please include flexible teaching activities to meet the required 18 hours per credit.
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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:

學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)	10%								
期中考成績 Midterm Exam	30%								
期末考成績 Final Exam	40%								
作業成績 Homework and/or Assignments	20%								
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions									
教科書與參考書目(書名、作者、書局、代理商、說明) Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)									
自編講義 高中數學課本 Lecture notes in class and high school textbooks.									
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) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.) https://sites.google.com/site/nsarquisaiex/									
其他補充說明 (Supplemental instructions)									