

授課教師：陳奕伸

Instructor: CHEN, YI-SHEN

課程名稱：線性代數

Course Title : Linear Algebra

2026/5/6

課程代號： IC2003301 Course Code	必選修：必修/半學年 Required/Elective: Required/Half Yr.
學分數： 3 Credits	先修課程： Prerequisites
節次教室： T8(IB-410-2) W8(IB-410-2) W9(IB-410-2) Time/Location	
專業核心能力： 1. 具備運用基礎數學、科學及工程知識的能力 Core Professional Competencies 2. 具備設計與執行實驗，以及分析與解釋數據的能力 3. 具有國際視野與良好的外語能力	
課程網址： None Course Website	
課程宗旨： This course explores the core concepts of linear algebra, including Course matrices and systems of equations, determinants, vector spaces, linear Objectives transformations, orthogonality, and eigenvalues. Through this curriculum, students will understand these fundamental principles and their applications in various fields.	
課程大綱： Matrices and Systems of Equations Outline of Determinants Lectures Vector Spaces Linear Transformations Orthogonality Eigenvalues Numerical Linear Algebra Canonical Forms	
授課方式： 講授 Lecture：100% Method of Instruction 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%	
教科書： “Linear Algebra with Applications”， Steven J. Leon and Lisette de Textbooks Pillis, Pearson Education, Inc.	
參考書目： “Linear Algebra with Applications”， Steven J. Leon and Lisette de References Pillis, Pearson Education, Inc.	
修課須知： None Notice	
評量方式： Quiz: 28% Grading Midterm Exam: 25% Final Exam: 25% In-class Activities: 12% Participation: 10%	

備註說明： None
Notes