國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：項天瑞

Instructor:Tien-Ruey Hsiang

課程名稱：線性代數

Course Title：Linear Algebra

2026/11/3

課程代號： CS1006301 Course Code 學分數： 3 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	M3(TR-411) M4(TR-411) R2(TR-411)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This class aims at familiarizing students with fundamental concepts and computations of linear algebra, which include the following: 1.Linear systems and matrices. 2.Determinants. 3.Vector spaces linear transformations. 4.Inner product spaces. 5.Eigenvalues and eigenvectors.
課程大綱： Outline of Lectures	1.Linear systems and matrices. (3 weeks) 2.Determinants. (3 weeks) 3.Vector spaces linear transformations. (4 weeks) 4.Inner product spaces. (3 weeks) 5.Eigenvalues and eigenvectors. (3 weeks)
授課方式： Method of Instruction	講授 Lecture：100% 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： Textbooks	Linear Algebra with Applications, 10 ed. Leon/de Pillis
參考書目： References	N/A
修課須知： Notice	
評量方式： Grading	100% on quizzes.
備註說明： Notes	1. This is an EMI class. 2. Students are expected to have a high school level of English communication capability.