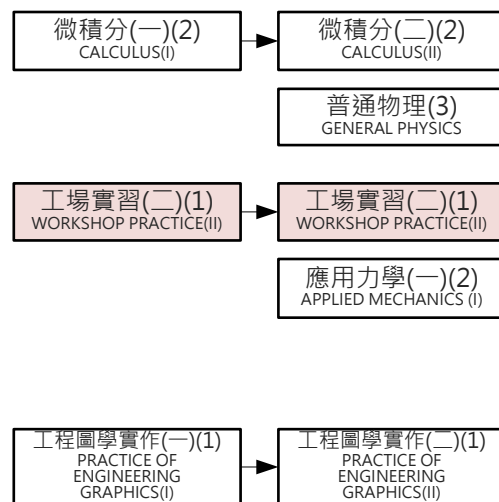


淡江大學 115 學年度機械與機電工程學系入學新生課程地圖

LEARNING MAP of Sep. 2026 freshman. Department of Mechanical and Electro-Mechanical Engineering, TKU

一年級 1st year



四軸無人機設計、製造及飛行的基礎技術 (選3)
BASIC TECHNOLOGIES FOR FOUR-AXIS UAV DESIGN, MANUFACTURING AND FLIGHT CONTROL

數位邏輯設計(選3)
DIGITAL LOGIC DESIGN

微機電系統概論 (工選2) TOPICS ON MICROELECTROMECHANICAL SYSTEMS

第1學期 Fall credits
4 / 6+2

程式語言(選3)
COMPUTER PROGRAMMING

印刷電路板電子設計自動化與製造 (選3)
ELECTRONIC DESIGN AUTOMATION AND MANUFACTURING OF PRINTED CIRCUIT BOARDS

光資機電產業趨勢(工選2)
OPTO-MECHANICS AND INFORMATION TECH TRENDS

第2學期 Spring credits
9 / 6+2

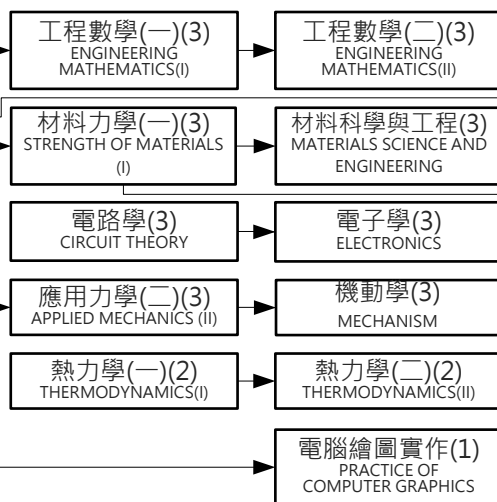
備註：必修/選修+工學院共同科系。

選修課程之開設科目，將依據本校規定可開課學分數開課，不是每個科目都會開課。

Note: Required/Elective + Electives courses by College of Engineering.

The elective courses offered by the department will be arranged based on the number of credits permitted under the university's regulations. Not all listed courses will necessarily be offered.

二年級 2nd year



電腦程式設計(選3)
COMPUTER PROGRAM DESIGN

微處理器(選3)
MICROPROCESSORS

人因工程學(選3)
HUMAN FACTOR

第1學期 Fall credits
14 / 9

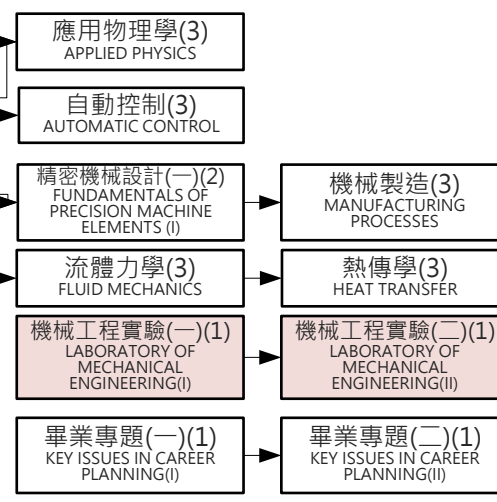
人工智慧實務(選3)
ARTIFICIAL INTELLIGENCE PRACTICE

CNC操作與加工實務(選2)
CNC OPERATING PRACTICE

材料力學(二)(選3)
STRENGTH OF MATERIALS(II)

第2學期 Spring credits
15 / 8

三年級 3rd year



電腦輔助製造(選2)
COMPUTER AIDED MANUFACTURING

工程光學(選3)
ENGINEERING OPTICS

動態系統分析(選3)
ANALYSIS OF DYNAMIC SYSTEMS

工業材料應用(選3)
APPLICATION OF INDUSTRIAL MATERIALS

電子計算機工程應用(一)(選2)
ENGINEERING APPLICATION OF COMPUTERS(I)

第1學期 Fall credits
13 / 13

精密機械設計(二)(2)
FUNDAMENTALS OF PRECISION MACHINE ELEMENTS (II)

能源工程(選3)
ENERGY ENGINEERING

電腦輔助設計(選3)
COMPUTER AIDED DESIGN

精密量測原理(選2)
FUNDAMENTALS AND APPLICATIONS OF ENGINEERING METROLOGY

機構設計(選3)
MECHANISM DESIGN

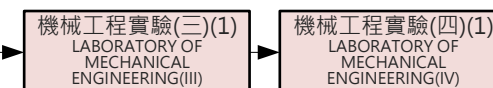
3D列印設計(選3)
3D Printing Design

數位訊號處理(選3)
DIGITAL SIGNAL PROCESSING

電子計算機工程應用(二)(選2)
ENGINEERING APPLICATION OF COMPUTERS(II)

第2學期 Spring credits
8 / 21

四年級 4th year



專案管理實習(選3)
PROJECT MANAGEMENT PRACTICE

研發技術實習(選3)
RESEARCH TECHNOLOGY PRACTICE

產線技術實習(選3)
PRODUCTION-LINE TECHNOLOGY PRACTICE

機械振動(選3)
MECHANICAL VIBRATION

創意性工程設計(選2)
Creative Engineering Design

有限元素法概論(選3)
INTRO. TO FINITE ELEMENT METHOD

精密加工概論(選3)
INTRODUCTION TO PRECISION MACHINING

第2學期 Spring credits
1 / 20

機電整合(選3)
MECHATRONICS

計算流體力學軟體應用(選3)
APPLICATIONS OF COMPUTATIONAL FLUID DYNAMICS SOFTWARE

第1學期 Fall credits
1 / 6

115學年度起 必修學分91學分(含通識26學分)；本系選修課最低學分9學分；畢業學分數128學分
Sep. 2026- Completion of 128 credits, including 91 credits of compulsory courses and 9 credits of elective courses.