

大葉大學 115學年度新生入學四年學程
2026 Program for Bachelor Degree Program, Da-Yeh University
院別：工院 系別：電機工程學系 畢業總學分:128學分 製表日期:115.7.30
Department of ELECTRICAL ENGINEERING, College of Engineering Total Credits: 128 Publish Date: July 30, 2026

類別	Category	必選別	Required/ Optional	科目名稱	Course Title	修課年 級、學 期別	Acade mic Year/Se mester	科目代號 Course Number	學分 數 Credits	每週上課時數 Class Hours		備註	Remarks
										講授 Lecture	實習(驗) Lab.		
A.校定 必修30 學分	Universit y- Required Courses 30 credits	必	Required	國文能力	Chinese Language Proficiency	一上下	1/1、 1/2		2	2	0		
		必	Required	運算思維	Computational Thinking	一上下	1/1、 1/2		2	2	0		
		必	Required	英語聽力與口語(一)	English Listening and Speaking (1)	一上	1/1		2	2	0	此八科「英文能力」類課程採： 一. 全英 二. 能力分班 三. 統一會考 四. 同科目但不同能力班級，課程名稱不同。例：初級英語聽力與口語(一)、中級英語聽力與口語(一)、中高級英語聽力與口語(一)、高級英語聽力與口語(一)。	These eight courses of the "Elementary English" category adapt to the following conditions: a.) Full-time lecture in English. b.) Divide students into different classes according to their English ability. c.) Examinations are held concurrently. d.) Titles of the courses are different for students of the same course but of different classes. ex: Elementary English Listening and Speaking (1)、Intermediate English Listening and Speaking (1)、Upper-Intermediate English Listening and Speaking (1)、Advanced English
		必	Required	英文閱讀與寫作(一)	English Reading and Writing (1)	一上	1/1		2	2	0		
		必	Required	英語聽力與口語(二)	English Listening and Speaking (2)	一下	1/2		2	2	0		
		必	Required	英文閱讀與寫作(二)	English Reading and Writing (2)	一下	1/2		2	2	0		
		必	Required	通識	General Education				16	16	0		
		必	Required	英語文能力檢定	Qualification Test of English Proficiency				0	0	0		學生於大一下學期結束前均須參加英文檢定校園考或校外英文檢定測驗。成績須達多益400分以上(或CSEPT第一級170分，或全民英檢中級初試通過，或托福、雅思等其他同等級之測驗分數)。英語學系通過標準另依其規定。
		必	Required	資訊基本能力檢定	Qualification Test of Computer Skills				0	0	0		
		必	Required	中文能力檢定	Chinese Language Proficiency Test				0	0	0	依大葉大學學生中文能力檢定辦法辦理。	Students are required to sit in for campus/off-campus English proficiency tests before the end of freshman year. The passing requirement for each proficiency test is described below: TOEIC 400/ 1st-level CSEPT 170/ Intermediate GEPT/TOEFL or IELTS scores at equivalent levels.
		必	Required	體育	Physical Education	一上 一下	1/1 1/2		1 1	2 2	0 0	大一學生每學期均須修習，每學期1學分。	One of the following Microsoft Office certifications is required for graduation. 1. Microsoft Office Specialist(MOS) in Word 2. Microsoft Office Specialist(MOS) in Powerpoint 3. Microsoft Office Specialist(MOS) in Excel 4. Techiciency Quotient Certification in Word 5. Techiciency Quotient Certification in Powerpoint 6. Techiciency Quotient Certification in Excel 7. Other Microsoft Office certifications Conduct according to Chinese Language Proficiency Test regulation of Da-Yeh University.
		必	Required	微積分(一)	Calculus (1)	一上	1/1		3	3	0		
B.學院 必修18 學分	College required 18 credits	必	Required	微積分(二)	Calculus (2)	一下	1/2		3	3	0		
		必	Required	普通物理	General Physics	一下	1/2		3	3	0		
		必	Required	計算機概論	Introduction to Computers Science	一上	1/1		3	3	0		
		必	Required	工程數學(一)	Engineering Mathematics(1)	二上	2/1		3	3	0		
		必	Required	程式設計	Program Design	一上	1/1		3	3	0		
		選	Elective	工程英文	Engineering English	二二三	2~3		3	3	0		
C.學院 選修9 學分	C.College- Designate d Elective Courses 9 Credits	選	Elective	溫室氣體管理	Greenhouse Gas Management	二二三	2~3		3	3	0		
		選	Elective	綠色能源概論	Introduction to Green Energy	二二三	2~3		3	3	0		
		選	Elective	智慧科技導論	Introduction to Smart Technology	二二三	2~3		3	3	0		
		選	Elective	智慧機器設計與程式入門	Smart Robotics & Programming Fundamentals	一二二	1~2		3	3	0		
		選	Elective	人工智慧	Artificial Intelligence	三三四	3~4		3	3	0		
		選	Elective	智慧機器設計與程式入門	Smart Robotics & Programming Fundamentals	一二二	1~2		3	3	0		
D.系定 必修36 學分	D.Depar tment- Designat ed Required Courses 36 credits	必	Required	數位邏輯實驗	Digital Circuits and Logic Design	一上	1/1		1	1	2		
		必	Required	數位電路與邏輯設計	Digital Circuits and Logic Design	一上	1/1		3	3	0		
		必	Required	室內配線與應用實務	Applications and Techniques of Commercial Wiring	一上	1/1		3	3	0		
		必	Required	普通物理實驗(電學)	General Physical Laboratory (Electricity)	一下	1/2		1	1	2		
		必	Required	電路學(一)	Electric Circuits (1)	二上	2/1		3	3	0		
		必	Required	電子學(一)	Electronics (1)	二上	2/1		3	3	0		
		必	Required	電子電路學實驗(一)	Electronic circuit Laboratory(1)	二上	2/1		1	1	2		
		必	Required	電路學(二)	Electric Circuits (2)	二下	2/2		3	3	0		
		必	Required	工程數學(二)	Engineering Mathematics (2)	二下	2/2		3	3	0		
		必	Required	電子學(二)	Electronics (2)	二下	2/2		3	3	0		
		必	Required	電磁學	Electromagnetics	二下	2/2		3	3	0		
		必	Required	電子電路學實驗(二)	Electronic circuit Laboratory(2)	二下	2/2		1	1	2		
		必	Required	半導體製程與量測技術	Semiconductor Process and Measurement Technology	三上	3/1		3	3	0		
		必	Required	控制系統	Control Systems	三上	3/1		3	3	0		
		必	Required	專題實作(一)	Senior Project (1)	三上	3/1		1	1	0		
		必	Required	專題實作(二)	Senior Project (2)	三下	3/2		1	1	0		
		選	Elective	控制入門	Basic Control	一	1		3	3	0		
		選	Elective	工程倫理	Engineering Ethics	一	1		3	3	0		
		選	Elective	基本電學	Fundamental Electricity	一	1		3	3	0		
		選	Elective	物件導向程式設計	Object Oriented Programming	一	1		3	3	0		

E.學系 選修科 目至 少28學 分	E.Department optional 28 credits	選	Elective	電機工程概論	Introduction to Electrical Engineering	一	1		3	3	0	
		選	Elective	居家線路裝修進階實務(一)	Advanced Practice of Home Wiring Decoration (1)	二	2		3	3	0	
		選	Elective	居家線路裝修進階實務(二)	Advanced Practice of Home Wiring Decoration (2)	二	2		3	3	0	
		選	Elective	近代物理	Modern Physics	二	2		3	3	0	
		選	Elective	通訊電子概論	Introduction to Communication Theory	二	2		3	3	0	
		選	Elective	MATLAB程式設計	MATLAB Programming	二	2		3	3	0	
		選	Elective	E世代電機工程概論	Introduction to Electrical Engineering	二	2		3	3	0	
		選	Elective	verilog硬體描述語言與應用實務	Practical Application in Verilog HDL	二	2		3	3	0	
		選	Elective	可程式邏輯控制器與應用實務	Programmable Logic Controllers and Applications	二	2		3	3	0	
		選	Elective	電力電子學	Power Electronics	二	2		3	3	0	
		選	Elective	電子材料學	Introduction to Electronic Materials	二	2		3	3	0	
		選	Elective	半導體元件學	Semiconductor Devices	二	3		3	3	0	
		選	Elective	電機機械	Electrical Machinery	二	3		3	3	0	
		選	Elective	平面顯示器	Flat Panel Display	二	3		3	3	0	
		選	Elective	微處理機與應用實務	Microprocessor and Its Practical Application	二	3		3	3	0	
		選	Elective	計算機組織	Computer Organization	二	3		3	3	0	
		選	Elective	微奈米工程量測與實作	Micro-Nano-Material Technology	二	3		3	3	0	
		選	Elective	材料分析技術與實作	Material Analysis Technology and Experiments	二	3		3	3	0	
		選	Elective	VLSI電腦輔助設計	VLSI Computer-Aided Design	二	3		3	3	0	
		選	Elective	訊號與系統	Signal and System	二	3		3	3	0	
		選	Elective	機電整合系統設計與應用實務	Mechatronics System Designs and Application Practices	二	3		3	3	0	
		選	Elective	感測元件實務應用	The Applications of Sensors	二	3		3	3	0	
		選	Elective	無線控制系統製作與應用實務	Wireless Control System Production and Practice	二	3		3	3	0	
		選	Elective	數位影像處理	Digital Image Processing	二	3		3	3	0	
		選	Elective	電子電路設計	Electronic Circuits Design	二	3		3	3	0	
		選	Elective	嵌入式系統設計	Embedded System Design	二	3		3	3	0	
		選	Elective	FPGA晶片設計與應用實務	FPGA Chip Design and Application	二	3		3	3	0	
		選	Elective	太陽能工程	Photovoltaic System	二	3		3	3	0	
		選	Elective	LCD製程技術	LCD Processing Technology	二	3		3	3	0	
		選	Elective	LED製程技術	LED Processing Technology	二	3		3	3	0	
		選	Elective	感測元件與機械手臂實務應用	Sensor and Robot Applications	二	3		3	3	0	
		選	Elective	人工智慧單晶片電腦實務應用	AI in Single-Chip Microcomputer Practical Applications	二	3		3	3	0	
		選	Elective	電波工程	Electromagnetic Wave Engineering	二	3		3	3	0	
		選	Elective	線性代數與機率	Linear Algebra and Probability	二	3		3	3	0	
		選	Elective	固態電子學	Solid State Electronics	二	3		3	3	0	
		選	Elective	積體電路設計	Integrated Circuit Design	二	3		3	3	0	
		選	Elective	通訊原理	Principles of Communication	二	3		3	3	0	
		選	Elective	進階電磁學	Advanced Electromagnetics	二	3		3	3	0	
		選	Elective	智慧型控制	Intelligent Control	二	3		3	3	0	
		選	Elective	薄膜工程	Thin Film Technology	二	3		3	3	0	
		選	Elective	機器學習	Machine Learning	二	3		3	3	0	
		選	Elective	光電材料與元件技術	Optoelectronic Material and Device Technology	二	3		3	3	0	
		選	Elective	LED照明與燈具設計	LED Application in Lighting Fixture Design	二	3		3	3	0	
		選	Elective	智慧機器人學	Introduction to Intelligent Robot	二	3		3	3	0	
		選	Elective	深度學習	Deep Learning	二	3		3	3	0	
		選	Elective	半導體原理與製程	Semiconductor Manufacturing Technology	二	3		3	3	0	
		選	Elective	真空與薄膜應用	Vacuum and Thin Film Applications	四	4		3	3	0	
		選	Elective	電力系統	Industrial Power Systems	四	4		3	3	0	
		選	Elective	數位訊號處理學	Introduction to Digital Signal Processing	四	4		3	3	0	
		選	Elective	半導體物理	Semiconductor Physics	四	4		3	3	0	
		選	Elective	數位通訊學	Introduction to Digital Communications	四	4		3	3	0	
		選	Elective	計算機設計	Computer Design	四	4		3	3	0	
		選	Elective	射頻電路學	Introduction to Radio-Frequency Circuits	四	4		3	3	0	
		選	Elective	通訊電子學	Communication Electronics	四	4		3	3	0	
		選	Elective	光電量測實驗技術	Experimental Techniques in Electro-Optical Measurement	四	4		3	3	0	
		選	Elective	光通訊學	Introduction to Optical Communication	四	4		3	3	0	
		選	Elective	系統專題實作	Implementation Topics on System Engineering	四	4		3	3	0	
		選	Elective	通訊專題實作	Implementing Communication System Topics	四	4		3	3	0	
		選	Elective	物聯網技術學	Introduction to Internet of Things Technology	四	4		3	3	0	
		選	Elective	全職實習	Co-Operative Program	四	4		9	0	0	
		選	Elective	◎選修工學院跨領域模組課程,得承認為電機系選修	Optional cross-field module courses of the School of Engineering, which must be recognized as electives for the Department of Electrical Engineering	二~四	2~4					
		選	Elective	◎選修本系碩士班選修得承認為大學部選修學分。	Elective courses taken in the department's master's program can be recognized as undergraduate elective credits.							
F.自由 選修7 學分	Free Elective Courses 7 credits	學生可修習跨院系領域課程做為自由學分，以增加跨界學習能力。										
		To increase students' inter-disciplinary learning ability, the school encourages students to take courses offered in different departments or colleges, which can be recognized as Free Elective credits.										

◎多修學院選修課程的學分數可列計系選修或自由選修學分數。

Credits earned from taking elective courses offered by the College of Engineering may be counted toward either departmental electives or free electives.

◎電機工程學系 畢業應修足學分數共 128學分，其中包含：Students in the Department of Electrical Engineering must complete a total of 128 credits to graduate, including:

- | | | | |
|--------|------|---|------------|
| A.校定必修 | 30學分 | A.University-Required Courses | 30 credits |
| B.院定必修 | 18學分 | B.College-Designated Required Courses | 18 credits |
| C.院定選修 | 9分 | C.College-Designated Elective Courses | 9 credits |
| D.系定必修 | 36學分 | D.Department-Designated Required Courses | 36 credits |
| E.學系選修 | 28學分 | E. Department-Designated Elective Courses | 28 credits |

F.自由選修 7學分 F. Free Elective courses 7 credits

註:第132次(115.04.15)系課程委員會、第91次(115.05.26)院課程委員會、第44次(115.7.30)校課程委員會會議通過

Approved at the 132th Department Curriculum Committee Meeting on Apr 15, 2026

Approved at the 91st Meeting of the College Curriculum Committee on May 26, 2026

Approved at the 44th Meeting of the University Curriculum Committee, Da-Yeh University, July 30, 2026