2025 NFU Bilingual Course List for International Students

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
1	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	Advanced Thermodynamic 高等熱力學	3	3
2	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	Aircraft Maintenance Practice 飛機維修實務	3	3
3	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	Cubesat Design Practice 立方衛星設計實務	3	3
4	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	Drone Principle of Communication 無人機通訊原理	3	3
5	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	Flight Safety 飛航安全	3	3
6	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	International Aviation Regulations 國際民航法規	3	3
7	College of Engineering 工程學院	Department of Aeronautical Engineering 飛機工程系	航空品保與驗證 Aircraft Quality Assurance & Certification	3	3
8	College of Engineering 工程學院	Department of Automation Engineerin 自動化工程系	Big Data Analysis 巨量資料分析	3	3
9	College of Engineering 工程學院	Department of Automation Engineerin 自動化工程系	Engineering Analysis 工程分析	3	3
10	College of Engineering 工程學院	Department of Automation Engineerin 自動化工程系	Intelligent Control 智慧型控制	3	3
11	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Application for Digital Image Processing 數位影像處理實務	3	3
12	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Autonomous Unmanned Vehicle System 自動化無人載具系統	3	3
13	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Collaborative Product Design 協同產品設計	3	3
14	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Creation & Invention 創意與發明	3	3
15	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Design of Embedded System 嵌入式系統	3	3
16	College of Engineering 工程學院	Department of Automation Engineering 自動化工程系	Embeded Systems 嵌入式系統	3	3
17	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Electronic Packaging 電子構裝	3	3
18	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Electro-Optics Ceramic Materials 光電陶瓷材料	3	3
19	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Mechanical Properties of Materials 材料機械性質	3	3
20	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Semiconductor Devices & Process 半導體元件與製程	3	3

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
21	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Surface Analysis of Materials 材料表面分析	3	3
22	College of Engineering 工程學院	Department of Materials Science & Engineering 材料科學與工程系	Thermodynamics of Solids 固態熱力學	3	3
23	College of Engineering 工程學院	Department of Mechanical & Computer-Aided Engineering 機械與電腦輔助工程系	Heat Tranter 數值熱傳	3	3
24	College of Engineering 工程學院	Department of Mechanical & Computer-Aided Engineering 機械與電腦輔助工程系	Semiconductor Process Technology 半導體製程技術	3	3
25	College of Engineering 工程學院	Department of Mechanical & Computer-Aided Engineering 機械與電腦輔助工程系	Special Topics on Metal Forming 金屬成形特論	3	3
26	College of Engineering 工程學院	Department of Mechanical Design Engineering 機械設計工程系	Advanced Engineering Analysis 高等工程分析	3	3
27	College of Engineering 工程學院	Department of Mechanical Design Engineering 機械設計工程系碩士班	Introduction to Semiconductor Device & Manufacturing Process 半導體元件製程	3	3
28	College of Engineering 工程學院	Department of Mechanical Design Engineering 機械設計工程系碩士班	Mechanical Vibrations 機械振動學	3	3
29	College of Engineering 工程學院	Department of Mechanical Design Engineering 機械設計工程系碩士班	P-TECH Course P-TECH 課程	1	1
30	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	Computational Methods for Fluid Dynamics 計算流體力學	3	3
31	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	Convective Heat Transfer 熱對流	3	3
32	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	Dynamics of Machine System 機器系統動力學	3	3
33	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	Dynamics of Multibody Systems 多體動力學	3	3
34	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	Nonlinear System Analysis 非線性系統分析	3	3
35	College of Engineering 工程學院	Department of Power Mechanical Engineering 動力機械工程系	線性系統分析 Linear System Analysis	3	3
36	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	Advanced Computer Aided Design 進階電腦輔助設計	3	3
37	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	Automobile Engine Principles 汽車引擎原理	3	3
38	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	Computer Aided Engineering Analysis 電腦輔助工程分析	3	3
39	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	English for Specific Purposes (Vehicle Engineering) 專業英文	2	2
40	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	Reading and Writing of Technical Thesis 科技論文閱讀與寫作	3	3

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
41	College of Engineering 工程學院	Department of Vehicle Engineering 車輛工程系	Vehicular Telematics & Experiment 車載資通訊與實驗	3	3
42	College of Engineering 工程學院	Interdisciplinary Program in Intelligent Industrial Technology R&D 跨領域智慧產業科技研發學程	Elasticity 彈性力學	3	3
43	College of Engineering 工程學院	Interdisciplinary Program in Intelligent Industrial Technology R&D 跨領域智慧產業科技研發學程	Modal Experiments & Analysis 模態實驗與分析	3	3
44	College of Engineering 工程學院	Interdisciplinary Program in Intelligent Industrial Technology R&D 跨領域智慧產業科技研發學程	Scientific English 科技英文	3	3
45	College of Engineering 工程學院	Interdisciplinary Program in Intelligent Industrial Technology R&D 跨領域智慧產業科技研發學程	Writing of Scientific English Paper 科技英文論文寫作	3	3
46	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	AI Model Programming & Applications 人工智慧系統建模與應用	3	3
47	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Big Data Analysis 巨量資料分析	3	3
48	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Cloud Computing & Big Data Security 雲端大數據安全	3	3
49	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Cloud Operation System 雲端作業系統	3	3
50	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Computer Networks 計算機網路概論	3	3
51	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	English for Science & Technology 科技英文	3	3
52	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	English Reading for Science & Technology 科技文件閱讀	3	3
53	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Internet of Things 物聯網	3	3
54	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Introduction to Information Engineering 資訊工程導論	3	3
55	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Machine Learning 機器學習	3	3
56	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Microprocessor Practice 微處理機實習	1	3
57	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Microprocessor 微處理機	3	3
58	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Next Generation Mobile Communication Networks 下世代行動通訊網路	3	3
59	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Operation System 作業系統	3	3
60	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Pattern Recognition 圖形識別	3	3

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
61	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Research Writing for Science & Technology 科技論文寫作	3	3
62	College of Electrical & Computer Engineering 電資學院	Department of Computer Science & Information Engineering 資訊工程系	Scientific Computing 科學計算	1	3
63	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	Electronic Circuit Design Practice 電子電路設計實務	3	3
64	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	Embedded Systems 嵌入式系統	3	3
65	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	English for Specific Purposes (Electrical Engineering) 專業英文	2	2
66	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	FPGA Circuits Design FPGA 電路設計	3	3
67	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	Science & Technology English 科技英文	3	3
68	College of Electrical & Computer Engineering 電資學院	Department of Electrical Engineering 電機工程系	Technology & Practice of 5G Core Networks 5G核心網路技術與實務	3	3
69	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Advances in Semiconductor Physics & Devices 先進半導體物理與元件專論	3	3
70	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	English for Specific Purposes (Electro Optical Engineering) 專業英文	3	3
71	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Generative Artificial Intelligence Computer Vision 生成式人工智慧電腦視覺	3	3
72	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Introduction to Computer Science 計算機概論	3	3
73	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Modern Control Theories 現代控制理論	3	3
74	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Photonic Detection 光電檢測	3	3
75	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Principle of Optical Instrument 光電儀器原理	3	3
76	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Programming Language 程式語言	3	3
77	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Special Research Topics 特殊研究問題討論	2	2
78	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Special Topics in Nanophotonics 奈米光學特論	3	3
79	College of Electrical & Computer Engineering 電資學院	Department of Electro Optical Engineering 光電工程系	Vacuum & Coating Technology 真空與鍍膜技術	3	3
80	College of Electrical & Computer Engineering 電資學院	Department of Electro Optics Engineering 光電工程系	Thin Film Fabrication Technology & Material analysis 薄膜製程技術與薄膜材料分析	3	3

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
81	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Digital Communication Technology 數位通訊技術	3	3
82	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Electromagnetics 電磁學	3	3
83	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	High Speed Semiconductor Devices 高速半導體元件	3	3
84	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Introduction to Electronic Engineering 電子工程導論	3	3
85	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Microprocessor & Practice 微處理機與實習	3	3
86	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Optoelectronic Energy Devices 光電能源元件	3	3
87	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Python Programming Design Python程式設計	3	3
88	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Surface Analysis 表面分析	3	3
89	College of Electrical & Computer Engineering 電資學院	Department of Electronic Engineering 電子工程系	Wireless Communications 無線通訊	3	3
90	College of Management 管理學院	Department of Business Administration 企業管理系	Behavioral Finance 行為財務	3	3
91	College of Management 管理學院	Department of Business Administration 企業管理系	Business Data Analysis 企業資料分析	3	3
92	College of Management 管理學院	Department of Business Administration 企業管理系	Corporate Financial Management 公司財務管理	3	3
93	College of Management 管理學院	Department of Business Administration 企業管理系	Entrepreneurial Management 創業管理	3	3
94	College of Management 管理學院	Department of Business Administration 企業管理系	Information Management 資訊管理	3	3
95	College of Management 管理學院	Department of Business Administration 企業管理系	Internet Marketing 網路行銷	3	3
96	College of Management 管理學院	Department of Business Administration 企業管理系	Marketing Management 行銷管理	3	3
97	College of Management 管理學院	Department of Business Administration 企業管理系	Marketing Research 行銷研究	3	3
98	College of Management 管理學院	Department of Business Administration 企業管理系	Motivation & Leadership 激勵與領導	3	3
99	College of Management 管理學院	Department of Business Administration 企業管理系	Strategic Management 策略管理	3	3
100	College of Management 管理學院	Department of Business Administration 企業管理系	Technology Management 科技管理	3	3

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No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
101	College of Management 管理學院	Department of Finance 財務金融系	The Theory & Practice of Investment 投資學理論與實務	3	3
102	College of Management 管理學院	Department of Finance 財務金融系	Time Series Analysis 時間數列分析	3	3
103	College of Management 管理學院	Department of Finance 財務金融系	Topics on Bank Management 銀行管理專題	3	3
104	College of Management 管理學院	Department of Finance 財務金融系	Corporate Finance 公司理財	3	3
105	College of Management 管理學院	Department of Finance 財務金融系	Derivatives 衍生性金融商品	3	3
106	College of Management 管理學院	Department of Finance 財務金融系	Econometrics 計量經濟學	3	3
107	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Advanced Quality Control 高等品質管制	3	3
108	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Applied Statistics 應用統計學	3	3
109	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Data Mining 資料探勘	3	3
110	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Green & Sustainable Manufacturing & Enterprise Systems 綠色及永續製造企業系統	3	3
111	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Intelligent Manufacturing System 智慧製造系統	3	3
112	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Multiple Attribute Decision Making 多屬性決策	3	3
113	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Networks & Logistics 網路與運籌	3	3
114	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Production Management & Practice 生產管理與實務	3	3
115	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Quantitative Research Methodology 數量研究方法	3	3
116	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Simulation 模擬學	3	3
117	College of Management 管理學院	Department of Industrial Engineering & Management 工業工程與管理系	Sustainable Engineering & Management 永續工程與管理	3	3
118	College of Management 管理學院	Department of Information Management 資訊管理系	ETL & Modeling of Big Data 大數據彙整與建模	3	3
119	College of Management 管理學院	Department of Information Management 資訊管理系	Introduction to Business Intelligence 商業智慧	3	3
120	College of Management 管理學院	Department of Information Management 資訊管理系	Programming 程式設計	3	3

No.	College 開課學院	Department 開課學系	Course Title 課程名稱	Semester Credits 學分數	Hours per Week 每週時數
121	College of Management 管理學院	Department of Information Management 資訊管理系	Seminar on Information Management 資訊管理專題研討	2	2
122	College of Management 管理學院	Department of Information Management 資訊管理系	Seminar on Information Management 資訊管理專題研討	3	3
123	College of Management 管理學院	Department of Information Management 資訊管理系	Social Network Analysis 社群網路分析	3	3
124	College of Management 管理學院	Department of Information Management 資訊管理系	Software Engineering 軟體工程	3	3
125	College of Management 管理學院	Department of Information Management 資訊管理系	Database Management 資料庫管理	3	3
126	College of Management 管理學院	Department of Information Management 資訊管理系	Machine Learning & Big Data 機器學習與大數據	3	3
127	College of Management 管理學院	Department of Information Management 資訊管理系	Production & Operations Management 生產與作業管理	3	3
128	College of Applied Arts & Sciences 文理學院	Department of Applied Foreign Languages 應用外語系	Cross-cultural Management 跨文化管理	2	2
129	College of Applied Arts & Sciences 文理學院	Department of Applied Foreign Languages 應用外語系	International Marketing 國際行銷	2	2
130	College of Applied Arts & Sciences 文理學院	Department of Applied Foreign Languages 應用外語系	Introduction to Business 企業管理概論	2	2
131	College of Applied Arts & Sciences 文理學院	Department of Applied Foreign Languages 應用外語系	Multinational Management 國際企業管理	2	2
132	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Animal Biotechnology & Regenerative Medicine 動物生技暨再生醫學	3	3
133	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Biopesticide Development & Application 生物農藥開發與應用	3	3
134	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Development & Application of Herbal Medicine 中草藥開發與應用	3	3
135	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Food Fermentation 食品發酵學	3	3
136	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Marine Biotechnology 海洋生物科技學	3	3
137	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	Science Writing for Biotechnology 科技論文寫作	3	3
138	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	化妝品學與實習 Cosmetology & Applications	3	3
139	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	生物技術學及應用 Biotechnology & Application	3	3
140	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	生物製劑與實習 Practice of Biopesticides	3	3

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141	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	生醫檢測技術 Biomedical Diagnostic Technology	3	3
142	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	食品工廠管理 Applied Food Inspection	3	3
143	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	應用生物資訊學 Applied Bioinformatics	3	3
144	College of Applied Arts & Sciences 文理學院	Department of Biotechnology 生物科技系	藻類營養學 Nutrition of Algae	3	3
145	College of Applied Arts & Sciences 文理學院	Department of Leisure & Recreation 休閒遊憩系碩士班	Park Recreation Marketing & Management 公園遊憩行銷與管理	3	3
146	College of Applied Arts & Sciences 文理學院	Department of Multimedia Design 多媒體設計系	Creativity & Innovation Research 創意創新研究	3	3
147	College of Applied Arts & Sciences 文理學院	Department of Multimedia Design 多媒體設計系	Digital Media Communication 數位媒體傳播	3	3
148	College of Applied Arts & Sciences 文理學院	Department of Multimedia Design 多媒體設計系	HCI Design Research 人機介面互動設計研究	3	3
149	College of Applied Arts & Sciences 文理學院	Department of Multimedia Design 多媒體設計系	Multimedia Presentation & Topic Oriented Research 多媒體創作與表現專題研究	3	3
150	College of Applied Arts & Sciences 文理學院	Department of Multimedia Design 多媒體設計系	Social Media Interaction 社交媒體互動研究	3	3
151	-	Language Teaching Center 語言教學中心	Mandarin (1) 華語教學(一)	0	4
152	-	Language Teaching Center 語言教學中心	Mandarin (2) 華語教學(二)	0	4
153	-	Language Teaching Center 語言教學中心	Mandarin (3) 華語教學(三)	0	4
154	-	Language Teaching Center 語言教學中心	Mandarin (4) 華語教學(四)	0	4
155	-	Laboratory Internship Program 實驗室實習學程	Project Work (A) 專題製作 (一)	3	Flexible 彈性
156	-	Laboratory Internship Program 實驗室實習學程	Project Work (B) 專題製作 (二)	3	Flexible 彈性
157	-	Laboratory Internship Program 實驗室實習學程	Project Work (C) 專題製作 (三)	3	Flexible 彈性
158	-	Laboratory Internship Program 實驗室實習學程	Project Work (D) 專題製作 (四)	3	Flexible 彈性
159	-	Laboratory Internship Program 實驗室實習學程	Project Work (E) 專題製作 (五)	3	Flexible 彈性
160	-	Laboratory Internship Program 實驗室實習學程	Project Work (F) 專題製作 (六)	3	Flexible 彈性