

國立雲林科技大學智能示範鑄造產學攜手合作專班課程流程圖（112 學年度）

課程流程圖（講授時數－實習時數－學分數）

Intelligent Demonstration Foundry Industry-Academia Collaboration Program

112 Academic Year Curriculum Flowchart

第1學年First Academic Year		第2學年Second Academic Year		第3學年Third Academic Year		第4學年Fourth Academic Year	
第1學期	第2學期	第1學期	第2學期	第1學期	第2學期	第1學期	第2學期
First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester

共同必修科目（含通識 10學分，合計 18學分） Yuntech Compulsory Courses ((including 10 credits of general course. 18 credits in total)

體育 Physical Education 2-0-0	體育 Physical Education 2-0-0						
文學與創新 興趣選項 Literature and Innovation 2-0-2	未來科技與社會永續 Future technology and social sustainability 2-0-2	應用中文 Practical Chinese 2-0-2					
英文溝通實務（一） Practicum in EnglishCommunication n (I) 0-2-1	英文溝通實務（二） Practicum in EnglishCommunication n (II) 0-2-1						
通識課程 General Education 2-0-2	通識課程 General Education 2-0-2	通識課程 General Education 2-0-2	通識課程 General Education 2-0-2	通識課程 General Education 2-0-2			
6-2-5	6-2-5	4-0-4	2-0-2	2-0-2	0-0-0	0-0-0	0-0-0

院共同必修科目（合計2分） College Compulsory Course (2 credits)

		社會責任與產業倫理 Social Responsibility and Industrial Ethics 2-0-2					
0-0-0	0-0-0	2-0-2	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0

專業必修科目（合計50學分） Compulsory Courses (50 credits)

物理(一) Physics (I) 3-0-3	物理(二) Physics (II) 3-0-3	實用統計 Practical Statistics 2-0-2	熱力學概論 Introduction to thermodynamics 2-0-2	工業安全 Industrial Safety 2-0-2	專案管理 Project Management 2-0-2	實務專題與見習 (一) Special Projects and Clerkship (I) 0-6-3	實務專題與見習 (二) Special Projects and Clerkship (II) 0-6-3
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化學(一) Chemistry (I) 3-0-3	化學(二) Chemistry (II) 3-0-3	人工智慧導論 Introduction to Artificial Intelligence 2-0-2	材料概論 Introduction to Materials Science 2-0-2	工程經濟 Engineering Economics 2-0-2	能源科技 Energy Science and Technology 2-0-2		
計算機概論 Introduction to Computer Science 2-0-2	應用數學 Applied Mathematics 2-0-2	工程力學概論 Introduction to Engineering Mechanics 2-0-2	技術報告寫作 Technical Report Writing 2-0-2	品質管理實務 Quality Management Practices 2-0-2	產業個案研討 Industrial Case Studies 2-0-2		
8-0-8	8-0-8	8-0-8	8-0-8	6-0-6	6-0-6	0-6-3	0-6-3
專業選修科目 (至少應修 58 學分) Elective Courses (58 credits)							
產業實務實習(一) Industry Internship (I) 1-8-5	產業實務實習(二) Industry Internship (II) 1-8-5	產業實務實習(三) Industry Internship (III) 1-8-5	產業實務實習(四) Industry Internship (IV) 1-8-5	產業實務實習(五) Industry Internship (V) 1-8-5	產業實務實習(六) Industry Internship (VI) 1-8-5	產業實務實習(七) Industry Internship (VII) 1-8-5	產業實務實習(八) Industry Internship (VIII) 1-8-5
產業科技相關選修 Industrial Technology Related		簡報技巧 Presentation Skills 2-0-2	工業感測技術 Industrial Sensor Technology 2-0-2	工業物聯網 Industrial Internet of Things 2-0-2	生物科技產業 Biotechnology Industry 2-0-2	大數據與雲端計算 Big Data and Cloud Computing 2-0-2	實用人因工程 Human Factor Engineering 2-0-2
		機械原理 Principle of Machinery 2-0-2	綠色製造與永續發展 Green Manufacturing and Sustainable Development 2-0-2	電子業製造概論 Introduction to Electronics Manufacturing 2-0-2	高分子與複合材料 Polymer Composite Material 2-0-2	應用實驗設計與製程 改善 Applied experimental design and process improvement 2-0-2	應用空間科技 2-0-2
			智慧農業 Intelligent agriculture 2-0-2	化學工業概論 Introduction to Chemical Industries 2-0-2	生命科學 Life Sciences 2-0-2	精密製造 Precision Manufacturing 2-0-2	產品設計開發 Product Design and Development 2-0-2
			實用程式語言 Practical Programming 2-2-3		證照輔導 License Guidance and Preparation Course 2-0-2		
管理相關選修 Management Related			科技英文 Technical English 2-0-2	生產管理 Production Management 2-0-2	製造成本管理與改善 Management and Improvement of Manufacturing Cost 2-0-2	供應鏈管理 Supply Chain Management 2-0-2	創業導論 Introduction to Entrepreneurship 2-0-2

			邏輯思考與創新 Logical Thinking and Innovation 2-0-2	人際關係與團隊合作 Relationships and Teamwork 2-0-2	財務分析 Financial Analysis 2-0-2	人力資源管理與實務 Human Resource Management 2-0-2	行銷業務 Marketing and Sales 2-0-2
機械製造相關選修 Mechanical Manufacturing Related		金屬材料導論 Introduction to Metallic Materials 2-0-2	材料力學 Mechanics of Materials 2-0-2	熱工學(一) Thermal Engineering (I) 2-0-2	熱工學(二) Thermal Engineering (II) 2-0-2		
		電工學 Introduction to Electromechanics 2-0-2	數值控制工具機與實習 Numerical Control Machine Tools and Practice 2-2-3	材料分析 Materials Analysis and Testing 2-0-2	自動控制概論 Introduction to Automatic Control 2-0-2		
	1-8-5	1-8-5	9-8-13	17-12-23	15-8-19	17-8-21	11-8-15

合計：最低畢業總學分數為128學分 (Total: The minimum total credits for graduation are 128 credits.)

備註 Notes:

- (1) 實務專題與見習含括專業領域可為：產品製造與品質檢驗之生產見習、產品運輸與供應鏈之物流見習、業務推廣及技術服務之商流見習，專業製造部門單位之跟班學習
Special Projects and Clerkship include professional fields such as: production internships in product manufacturing and quality inspection, logistics internships in product transportation and supply chain, commercial internships in business promotion and technical services, and on-the-job training in professional manufacturing departments.
- (2) 專業選修至少應修 58 學分(含產業實務實習 40 學分)。
At least 58 credits of professional elective courses (including 40 credits of special projects and clerkship).
- (3) 專業選修課程可跨年級選修。
Professional elective courses can be taken across grades.
- (4) 外系選修以專業科目為主，選修全民國防教育軍事訓練課程、通識中心所開設之科目(含體育)皆不予認定，最高採認 12 學分。
When taking elective courses outside the department, the major courses should be the main focus, and a maximum of 12 credits can be recognized. National defense education military training courses and subjects offered by general education centers (including physical education) will not be recognized.
- (5) 「未來科技與社會永續」為院融合課程，該學分數屬校共同必修。
Future technology and social sustainability is a college-wide integrated course, and the credits are required for all students across the university.
- (6) 經 112 學年度第 2 學期 113/4/30 未來學院課程會議決議，113 學年度"起"入學生校共同必修院融合課程需修習「智慧科技與永續發展」(2-0-2)，113 學年度"前"入學學生，尚未修過「未來科技與社會永續」課程，應修「智慧科技與永續發展」課程抵免之。
As resolved at the College of Future Course Meeting for the second semester of the 2012 academic year on April 30, 2013, tudents enrolled from the 113th academic year onwards must take the course "Smart Technology and Sustainable Development" (2-0-2) as college compulsory course. Students who enrolled before the 113th academic year and have not yet taken the "Future technology and social sustainability" course should take the "Smart Technology and Sustainable Development" course to transfer the credit.