

The Curriculum Framework for the Four-Year Bachelor Program of the Fire Science Department at Wufeng University for the 112 Academic Year																			
科目類別 (Course Category)	第一學年(First Academic Year)				第二學年(Second Academic Year)				第三學年(Third Academic Year)				第四學年(Fourth Academic Year)				小計 Subtotal		
	上(First Semester)		下(Second Semester)		上(First Semester)		下(Second Semester)		上(First Semester)		下(Second Semester)		上(First Semester)		下(Second Semester)				
	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits	科目 Course Title	學分 Credits			
基本素養 (Basic Literacy)	英文(一)/English(I)	3	英文(二)/English(II)	3	安全教育/Safety Education	1													
	文學賞析與寫作/Appreciation & Composition of Chinese Literature	2	華文能力表達/The ability of Expression in Chinese Language	2	專業倫理/Professional Ethics	1													
	體育(一)/Physical Education I	2	體育(二)/Physical Education II	2	創意發明與智慧財產/Introduction to Originality and IPR	1													
	勞作教育/Labor Education	1																	
小計/subtotal	8	8	7	7	3	3	0	0	0	0	0	0	0	0	0	18			
公民素養 (Civic Literacy)					公民素養(一)/Civic Literacy(I)	2	2	公民素養(二)/Civic Literacy(II)	2	2									
	小計/subtotal	0	0	0	0	0	0	2	2	2	2	0	0	0	0	4			
共同必修 (Common Compulsory)	微積分/Calculus	2	計算機概論*/Introduction to Computer	2	3			創意發明與智慧財產*/Creativity and Intellectual Property	2	2									
	小計/subtotal	2	2	2	3	0	0	2	2	2	2	0	0	0	0	6			
專業必修 (Courses required by the department)	消防學/Introduction to Fire Science	3	消防法規(一)/Fire Code and Regulations (I)	3	3	大災學(一)/Fire Science(I)	2	2	大災學(二)/Fire Science(II)	2	2	專題與書報討論(一)/Final Project (I)	1	1	消防圖學(二)/Fire Engineering Drawing (II)	3	3		
	消防法規(二)/Fire Code and Regulations (II)	3	普通物理(二)/Phys	2	2	數位邏輯程式設計與應用*/Digital logic programming and application	1	2	警報系統消防安全設備*/Alarms and Detection Systems for Fire Protection	3	4	消防圖學(一)*/Fire Engineering Drawing (I)	3	3	專題與書報討論(二)/Final Project (II)	1	1		
	普通物理(一)/Physics (I)	2	2	普通化學(二)/General Chemistry(II)	2	2	水系統消防安全設備*/Water-Base Suppression Systems for Fire Protection	3	4	逃生系統消防安全設備*/Escape Systems for Fire Protection	3	4							
	普通化學(一)/General Chemistry(I)	2	2	普通化學實驗*/General Chemistry	1	2	化學系統消防安全設備*/Special Suppression Systems	3	4										
	小計/subtotal	10	10	8	9	9	12	8	10	4	4	6	6	6	6	0	0		
	必修小計/Subtotal, Compulsory	20	20	17	19	12	15	12	14	6	6	6	6	6	6	0	0		
專業選修 (Elective courses of the department)	應用統計*/Application of Statistics	2	2	熱傳學*/Heat Transfer	2	2	建築物防火/Fire Safety of Buildings	2	2	配線實務*/Wiring Practice	3	3	氣體燃料導管配管(二)/Gas Piping(II)	3	3	消防工程英文*/Fire Engineering English	2	2	
	電工學*/Electrical Engineering	2	2	配管實務(一)/Piping Practice(I)	2	2	消防化學*/Fire Chemistry	2	2	工業通風*/Industrial Ventilation	3	3	消防機械*/Fire Fighting Facility	3	3	大災保險學*/Fire Insurance	2	2	
	消防安全設備設置標準解說(一)*/Installation standards of fire safety equipment (I)	2	2	消防水力學*/Hydraulics	2	2	工業電子*/Industrial Electronics	2	2	創新與創業實務*/Innovation and Entrepreneurship in Practice	3	3	特定瓦斯器具裝修(二)*/Installation of specialized gas appliances (I)	3	3	應用微積分*/Applied calculus	2	2	
	消防安全設備設置標準解說(二)*/Installation standards of fire safety equipment(II)	2	2	工業安全概論*/Introduction of Industrial Safety	2	2	電腦繪圖*/Computer Graphics	2	2	氣體燃料導管配管(一)/Gas Piping(I)	3	3	人體工程*/Human Factors Engineering	3	3	防火管理*/Fire Precaution Management	2	2	
					消防設備設置標準解說(一)*/Installation standards of fire safety equipment(I)	2	2	配管實務(二)/Piping Practice(II)	2	2	特定瓦斯器具裝修(一)*/Installation of specialized gas appliances (I)	3	3	工業衛生概論*/Industrial hygiene	3	3	危機管理*/Crisis Management	2	2
					工業安全概論*/Introduction of Industrial Safety	2	2	風險評估*/Risk assessment	2	2	公共危險物品管理與消防設備*/Fire Safety Design and Equipments for Public Hazardous Goods	3	3	緊急救護*/Emergency Medical Service	3	3	都市防災*/Urban disaster prevention	2	2
					工業安全概論*/Introduction of Industrial Safety	2	2	工程材料*/Engineering Materials	2	2	應用力學*/Static Mechanics	3	3	大災學(三)*/Fire Science (III)	2	2	職業安全衛生法規*/Occupational Safety and Health Regulations	2	2
					電氣安全*/Electrical Safety	2	2	機械防護*/Mechanical Protection	3	3									
					法學導論*/Introduction to Laws	2	2												
					校外實習(一)*/Practical Training (I)	3	3												
該學期至少應選修學分/學時 minimum elective credits required for	0	0	4	4	6	6	6	7	9	9	9	9	9	9	6	6			
學分/學時小計 Subtotal, Credits/Hour	20	20	21	23	18	21	18	21	15	15	15	15	15	15	6	6			
學能課程 Potential courses: up to 6 credits	1. 通識選修：最多4學分 2. 社團發展：最多6學分 3. 證照專利：最多6學分 4. 競賽展演：最多6學分 5. 學程與跨系與選修：最多為本課程應修學分 5. Course and interdepartmental interest electives: up to credits required for this type of courses 6. 校外實習：最多21學分 6.Field Practice: Up to 21 credits 7. 潛能課程與選修課程知能清單參考：參閱科技大學潛能課程修課要點，辦理。 7. Please refer to "Key Points of Potential Courses of Wufeng University of Science and Technology" for detailed requirements of Potential Courses.																		
學能課程學分/學時 Potential course credits/credit hour	2	2	2	2	2	2										6			
專業最低學分/學時 Total Number of Required Credits/Hour	22	22	23	25	20	23	18	21	15	15	15	15	15	15	6	6			
共通選修 Common Elective	1. 全民國防教育軍事訓練：課程有五大學域：(一)國際情勢 (二)國防政策 (三)全民國防 (四)防衛勤務 (五)國防科技。 1. The "National Defense Education and Military Training" course has five areas: (1) International Situation (2) National Defense Policy (3) National Defense (4) Defense Mobilization (5) National Defense Science and Technology. 2. 各領域均為0.5學分/2學時，可折抵假期。各領域每學期開設情況，均依當學期教務處公告為準。 2.0 credits / 2 class hours in all fields, which can be deducted for service period. The courses of each semester are subject to the announcement of the Academic Affairs Office of the current semester.																		
備註/Notes:	一、校基本素養/Basic requirements of the university: 1. 國文能力門檻：依據「吳鳳科技大學學生英文能力專業門檻實施要點」相關規定辦理。 Language Proficiency Threshold: It shall be handled according to the implementation of "Wufeng University Students' English Proficiency Requirements for Graduation Threshold". 2. 資訊能力門檻：依據「吳鳳科技大學學生資訊能力專業門檻實施要點」，非資訊系(科)至少通過一級資訊基本能力認證測驗；資訊系(科)至少通過兩級資訊能力認證測驗。 Information Capability Threshold: According to the implementation of "Wufeng University students' information capability requirements for graduation threshold." Students of non-information departments (sections) must pass at least one basic information proficiency certification test. Students of the information department must pass at least two information proficiency certification tests. 二、院基本素養/Basic requirements of the college: 1. 學院必修科目為：微積分、計算機概論、創意發明與智慧財產。學生必須修習及格。 The compulsory courses of the college are: Calculus, Introduction to Computer, Creativity and Intellectual Property. Students must pass the courses. 三、系所基本素養/Basic requirements of the department: 1. 畢業學分數要求：至少取得128學分方可畢業，其中包括(1)基本素養科目18學分(2)公民素養科目4學分(3)學院共同必修6學分(4)專業必修科目45學分(5)專業選修科目49學分(6)學程、跨系與選修與潛能課程6學分。 Graduation credit requirements: At least 128 credits, including (1) Basic Literacy Courses: 18 credits (2) Civic Literacy Courses: 4 credits (3) The common compulsory subjects of the colleges: 6 credits (4) Professional compulsory courses: 45 credits (5) Professional elective courses: 49 credits (6) A maximum of 6 credits are recognized for courses, programs, cross-departmental and elective courses, and potential courses. 2. 各年級各學期修習學分數規定：(1)一、二年級：16-25學分。(2)三年級：14-25學分。(3)四年級：9-25學分。 Regulations on the number of credits for each grade and semester: (1) From first to second year: 16-25 credits. (2) Third year: 14-25 credits. (3) Fourth year: 9-25 credits. 3. 校外實習須符合「吳鳳科技大學學生校外實習課程實施要點」，以認定實習成績。 The Practical Training must meet the "Implementation of Wufeng University Students' Practical Training Course" to determine the internship results. 四、其他說明/Other remarks: 1. *表示需使用電腦課程。 Indicates that a computer course is required. 2. 本系可因應計劃性產業需求修改選修課程。 The department may modify elective courses according to the needs of the program and industry. 五、訂(修)定歷程/Booking (Revised) History: 112.08.22 消防系111學年度第2學期第2次課程委員會通過；112.08.22安全工程學院112學年度第1學期第1次課程委員會通過；112.09.05 112學年度第1學期第1次課程委員會通過。 112/08/22 Department of Fire Science 111 academic year 2nd semester, adopted by the Fire Science Curriculum Committee conference. 112/08/22 112 academic year 1st semester, adopted by the College of Safety and Engineering Curriculum Committee conference. 112/09/05 112 academic year 1st semester, adopted by the 1st Curriculum Committee conference.																		