

Chang Jung Christian University Bachelor's Degree Program in Fire Safety Science Curriculum List

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obligatory / elective course	No.	course name(ch)	course name	grade	semester	credit	hours/week		Remark
							instruction	parctice	
common course-obligatory	MT00085	全民國防教育軍事訓練-國際情勢	All-out Defence Education Military Training - International Situations	1	1	0	2	0	
	MT00086	全民國防教育軍事訓練-國防政策	All-out Defence Education Military Training - National Defense Policies	1	2	0	2	0	
	PE00217	體育 I	Physical Education I	1	1	0	2	0	
	PE00218	體育 II	Physical Education II	1	2	0	2	0	
	PE00219	體育 III	Physical Education III	2	1	0	2	0	
	PE00220	體育 IV	Physical Education IV	2	2	0	2	0	
language course-obligatory	GE00561	國文	Chinese	1	2	2	2	0	
	LE00297	英文 I	Freshman English I	1	1	2	2	0	
	LE00298	英文 II	Freshman English II	1	2	2	2	0	
	LE00299	外語初級 I		2	1	2	2	0	
	LE00300	外語初級 II		2	2	2	2	0	
general course-obligatory	FT00000	工程倫理	Engineering Ethics	1	1	1	1	0	
	GE00206	音樂欣賞	Music Appreciation	1	2	2	2	0	
	GE00537	服務學習	Service-Learning	3	2	1	1	2	
	GE00562	長榮精神	University and Holistic Pastoral Education	1	1	2	2	0	
	GE00567	通識課程		0	1	8	2	0	
	GE00656	體驗學習	Experience Learning	1	2	1	1	2	
	GE00663	經典99	Classics 99	0	1	2	2	0	
dep. course-obligatory	FT00002	普通物理	General Physics	1	1	2	2	0	
	FT00064	火災學	Fire Dynamics	1	1	2	2	0	
	FT00003	電氣安全	Electrical Safety	1	1	2	2	0	
	FT00001	普通化學	General Chemistry	1	1	2	2	0	
	FT00066	微積分	Calculus	1	1	2	2	0	
	FT00004	職業安全衛生法規	Occupational Safety and Health Act	1	2	2	2	0	
	FT00005	工業安全概論	Introduction to Industrial Safety	1	2	2	2	0	
	FT00008	消防法規	Fire Safety Laws and Regulations	1	2	2	2	0	
	FT00006	工程圖學	Engineering Graphics	1	2	2	2	0	
	FT00007	風險評估	Risk Analysis	1	2	2	2	0	
	FT00009	警報系統	Fire Alarm System	2	1	2	2	0	
	FT00010	水系統消防安全設備	Water System Fire Safety Equipments	2	1	2	2	0	
	FT00011	危險物品管理	Hazardous Materials Management	2	1	2	2	0	
	FT00012	避難系統	Evacuation System	2	2	2	2	0	

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dep. course-obligatory	FT00013	工業通風	Industrial Ventilation	2	2	2	2	0	
	FT00014	化學系統消防安全設備	Chemical System Fire Safety Equipments	2	2	2	2	0	
	FT00015	火場模擬	Fire Modeling	2	2	2	2	0	
	FT00016	爆炸防制	Explosion Protection	2	2	2	2	0	
	FT00017	火災原因調查與鑑定	Fire Investigations and Cause Analysis	3	1	2	2	0	
	FT00018	特搜及繩索救援技術	Special Search and Rope Rescue Techniques	3	1	2	2	0	
	FT00019	職業災變與救護	Industrial Emergency Response and First Aid	3	2	2	2	0	
	FT00020	消防設備檢修實務	Inspection practice of fire protection system	3	2	2	2	0	
	FT00021	災害搶救與緊急應變	Disaster Rescue and Emergency Response	3	2	2	2	0	
dep. course-elective	FT00022	科技英文	Technical English	1	1	2	2	0	
	FT00023	計算機概論	Introduction to Computer	1	1	2	2	0	
	FT00024	消防水力學	Fire Hydraulics	1	2	2	2	0	
	FT00025	作業環境測定	Workplace Monitoring	2	1	2	2	0	
	FT00026	個人防護具	Personal Protector	2	1	2	2	0	
	FT00027	噪音與振動	Noise and Vibration	2	1	2	2	0	
	FT00029	工程數學	Engineering Mathematics	2	1	2	2	0	
	FT00028	化學分析技術概論	Chemical Analysis Technique	2	1	2	2	0	
	FT00030	化學工程	Chemical Engineering	2	2	2	2	0	
	FT00031	機械製造	Machinery Manufacturing	2	2	2	2	0	
	FT00032	實驗室安全與衛生	Laboratory Safety and Hygiene	2	2	2	2	0	
	FT00033	應用力學	Applied Mechanics	2	2	2	2	0	
	FT00034	材料力學	Mechanics of Materials	2	2	2	2	0	
	FT00065	儀器分析(含實驗)	Instrumental Analysis (and Laboratory)	3	1	2	2	0	
	FT00037	環境工程概論	Introduction to Environmental Engineering	3	1	2	2	0	
	FT00038	建築防火	Building Fire Safety	3	1	2	2	0	
	FT00039	熱力學	Thermodynamics	3	1	2	2	0	
	FT00040	自動控制	Automatic Control	3	1	2	2	0	
	FT00042	書報討論 I	Professional Article Discussion I	3	1	2	2	0	
	FT00036	粉塵測定與控制	Measurement and Control on Dust	3	1	2	2	0	
	FT00041	工業安全衛生管理實務	Practical Management on Industrial Safety and Health	3	1	2	2	0	

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dep. course-elective	FT00049	書報討論 II	Professional Article Discussion II	3	2	2	2	0	
	FT00043	營建安全	Construction Safety	3	2	2	2	0	
	FT00044	消防安全專題討論	Fire Safety Seminar	3	2	2	2	0	
	FT00045	人際關係與溝通技巧	Interpersonal relationships and communication skills	3	2	2	2	0	
	FT00046	實驗室認證作業程序	The SOP of Laboratory Certification	3	2	2	2	0	
	FT00047	消防戰技與戰術	Fire Fighting Tactics	3	2	2	2	0	
	FT00048	熱傳學	Heat Transfer	3	2	2	2	0	
	FT00050	安全實驗	Safety Laboratories	3	2	2	0	4	
	FT00051	安全工程	Safety Engineering	4	1	2	2	0	
	FT00052	工業安全專題討論	Industrial Safety Seminar	4	1	2	2	0	
	FT00053	火災鑑定專題討論	Fire Investigation and Determination Seminar	4	1	2	2	0	
	FT00054	火災採證與證物處理	Gathering and Analyzing Evidence	4	1	2	2	0	
	FT00055	災害防救	Disaster Prevention and Rescue	4	1	2	2	0	
	FT00056	消防行政與管理	Fire Administration and Management	4	1	2	2	0	
	FT00057	火災保險學	Fire Insurance	4	1	2	2	0	
	FT00058	危機管理	Crisis Management	4	2	2	2	0	
	FT00059	勞動檢查實務	Practice in Workplace Inspection	4	2	2	2	0	
	FT00060	災後心理諮商	Psychological Counseling after Disasters	4	2	2	2	0	
	FT00061	公共安全調查報告導讀	Readings of Public Safety Investigation Report	4	2	2	2	0	
	FT00062	汽車學	Automoblies	4	2	2	2	0	
	FT00063	管路工程	Pipeline Engineering	4	2	2	2	0	
obligatory 73 elective course 55 credit sum 128									