

Tajen University 4-Year Undergraduate Program Department of Environmental Science and Occupational Safety and Hygiene Group Curriculum

大仁科技大學四技日間部環境與職業安全衛生系標準課程表

2022 School Year ／ 111學年度入學學生適用

Chinese-English Bilingual Version ／ 中英對照版

最後修改日期：2022-04-28 ／ Last Edit Date: 2022-04-28

Course Type 科目類別	Requirement Group 條件群組	Course Title 科目名稱	Module Name 模組名稱	Credits 開課學分	Hours 開課時數	Items 開課項目	1st Academic Year 第1學年				2nd Academic Year 第2學年				3rd Academic Year 第3學年				4th Academic Year 第4學年				Remarks 備註
							1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		
							Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	
General Courses 通識必修	General Education Required 通識必修	[000001008] Chinese Reading and Writing I (2 Credit) 中文閱讀與書寫 I (2學分)		2	2		2	0														Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001147] Learning and Practice of Clubs I(1 Credit) 社團學習與實作 I(1學分)		1	1		1	0														Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001136] Work Education(1 Credit) 勞動教育(1學分)		1	2		2	0														Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001137] Physical Education I(2 Credit) 體育I(2學分)		2	2		2	0														Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001153] English for Daily Conversation I(2 Credit) 生活情境英文 I(2學分)		2	2		2	0														Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001009] Chinese Reading and Writing II (2 Credit) 中文閱讀與書寫 II (2學分)		2	2				2	0												Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001138] Physical Education II(2 Credit) 體育II(2學分)		2	2				2	0												Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001148] Learning and Practice of Clubs II(1 Credit) 社團學習與實作 II(1學分)		1	1				1	0												Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001154] English for Daily Conversation II(2 Credit) 生活情境英文 II(2學分)		2	2				2	0												Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001205] University Social Responsibility and Practice(2 Credit) 大學社會責任與實踐(2學分)		2	2						2	0										Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000000021] Creative Thinking and Application(2 Credit) 創意思考與應用(2學分)		2	2						2	0										Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001150] Service Learning(1 Credit) 服務學習教育(1學分)		1	1						1	0										Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001146] Program Design and Logical Calculus(2 Credit) 程式設計與邏輯運算(2學分)		2	2								2	0								Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001010] Citizenship and Society(2 Credit) 公民與社會(2學分)		2	2								2	0								Required 必修	
General Courses 通識必修	General Education Required 通識必修	[000001168] General Workplace English(2 Credit) 通用職場英文(2學分)		2	2								2	0								Required 必修	
Subtotal / 小計				26	27	15	9	0	7	0	5	0	6	0	0	0	0	0	0	0	0	0	
General Elective Courses 通識選修	General Education Elective 通識選修	[000000043] All-out Defense Education Military Training I(0 Credit) 全民國防教育軍事訓練 I (0學分)		0	2		2	0														Elective 選修	
General Elective Courses 通識選修	General Education Elective 通識選修	[000000044] All-out Defense Education Military Training II(0 Credit) 全民國防教育軍事訓練 II (0學分)		0	2				2	0												Elective 選修	
General Elective Courses 通識選修	General Education Elective 通識選修	[000000045] All-out Defense Education Military Training III(0 Credit) 全民國防教育軍事訓練 III (0學分)		0	2						2	0										Elective 選修	

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General Elective Courses 通識選修	General Education Elective 通識選修	[000000046] All-out Defense Education Military Training IV(0 Credit) 全民國防教育軍事訓練 IV (0學分)		0	2							2	0										Elective 選修
General Elective Courses 通識選修	General Education Elective 通識選修	[000000017] The Field of Natural Science(2 Credit) 自然科學領域(2學分)		2	2									2	0								Elective 選修
General Elective Courses 通識選修	General Education Elective 通識選修	[000000047] All-out Defense Education Military Training V(0 Credit) 全民國防教育軍事訓練 V (0學分)		0	2									2	0								Elective 選修
General Elective Courses 通識選修	General Education Elective 通識選修	[000000018] The Field of Social Science(2 Credit) 社會科學領域(2學分)		2	2											2	0						Elective 選修
General Elective Courses 通識選修	General Education Elective 通識選修	[000001000] The Field of Arts and Humanities(2 Credit) 藝術人文領域(2學分)		2	2													2	0				Elective 選修
Subtotal / 小計				6	6	3	2	0	2	0	2	0	2	0	4	0	2	0	2	0	0	0	
College Courses 院訂必修	Y1-S1 Required 一上必修	[DP4000020] Biology(2 Credit) 生物學(2學分)		2	2		2	0															Required 必修
College Courses 院訂必修	Y1-S1 Required 一上必修	[DP4000010] Chemistry(2 Credit) 化學(2學分)		2	2		2	0															Required 必修
College Courses 院訂必修	Y1-S2 Required 一下必修	[DP4000003] Physiology(2 Credit) 生理學(2學分)		2	2				2	0													Required 必修
College Courses 院訂必修	Y2-S1 Required 二上必修	[DP4000039] Career Ethics(2 Credit) 職場倫理(2學分)		2	2					2	0												Required 必修
College Courses 院訂必修	Y2-S2 Required 二下必修	[DP4000023] Biostatistics(2 Credit) 生物統計(2學分)		2	2							2	0										Required 必修
Subtotal / 小計				10	10	5	4	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0	
Required Courses Offered in Other Departments 跨領域必修	Cross-Disciplinary 跨領域	[000001182] Cross-Disciplinary Program I (2 Credit) 跨領域 I (2學分)		2	2				2	0													Required 必修
Required Courses Offered in Other Departments 跨領域必修	Cross-Disciplinary 跨領域	[000001183] Cross-Disciplinary Program II (2 Credit) 跨領域 II (2學分)		2	2						2	0											Required 必修
Required Courses Offered in Other Departments 跨領域必修	Cross-Disciplinary 跨領域	[000001184] Cross-Disciplinary Program III (2 Credit) 跨領域 III (2學分)		2	2								2	0									Required 必修
Required Courses Offered in Other Departments 跨領域必修	Cross-Disciplinary 跨領域	[000001185] Cross-Disciplinary Program IV (2 Credit) 跨領域 IV (2學分)		2	2									2	0								Required 必修
Subtotal / 小計				8	8	4	0	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	
Departmental Required Courses 專業必修	Y1-S1 Required 一上必修	[DP4490069] Occupational Safety(2 Credit) 職業安全(2學分)		2	2		2	0															Required 必修
Departmental Required Courses 專業必修	Y1-S1 Required 一上必修	[DP4490114] Practice Project I (1 Credit) 實務專題 I (1學分)		1	1		0	1															Required 必修
Departmental Required Courses 專業必修	Y1-S2 Required 一下必修	[DP4490141] Advanced Chemistry(including experiments)(2 Credit) 進階化學(含實驗)(2學分)		2	3				1	2													Required 必修
Departmental Required Courses 專業必修	Y1-S2 Required 一下必修	[DP4490115] Practice Project II (1 Credit) 實務專題 II (1學分)		1	1				0	1													Required 必修
Departmental Required Courses 專業必修	Y1-S2 Required 一下必修	[DP4490001] Introduction to Environmental Science(2 Credit) 環境科學概論(2學分)		2	2				2	0													Required 必修
Departmental Required Courses 專業必修	Y2-S1 Required 二上必修	[DP4490116] Practice Project III (1 Credit) 實務專題 III (1學分)		1	1						0	1											Required 必修
Departmental Required Courses 專業必修	Y2-S1 Required 二上必修	[DP4490011] Construction Safety(2 Credit) 營建安全(2學分)		2	2						2	0											Required 必修

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Departmental Required Courses 專業必修	Y2-S1 Required 二上必修	[DP4490067] The Law of Occupational Safety and Heath(2 Credit) 職業安全衛生法規(2學分)		2	2						2	0											Required 必修
Departmental Required Courses 專業必修	Y2-S1 Required 二上必修	[DP4490068] Occupational Hygiene(2 Credit) 職業衛生(2學分)		2	2						2	0											Required 必修
Departmental Required Courses 專業必修	Y2-S2 Required 二下必修	[DP4490117] Practice Project IV(1 Credit) 實務專題 IV(1學分)		1	1								0	1									Required 必修
Departmental Required Courses 專業必修	Y2-S2 Required 二下必修	[DP4490005] Environmental Chemistry(3 Credit) 環境化學(3學分)		3	3								3	0									Required 必修
Departmental Required Courses 專業必修	Y2-S2 Required 二下必修	[DP4490030] Ergonomics(2 Credit) 人因工程(2學分)		2	2								2	0									Required 必修
Departmental Required Courses 專業必修	Y2-S2 Required 二下必修	[DP4490121] Occupational Safety and Health Management(2 Credit) 職業安全衛生管理(2學分)		2	2								2	0									Required 必修
Departmental Required Courses 專業必修	Y3-S1 Required 三上必修	[DP4490076] Environmental Monitoring for Workplaces I (2 Credit) 作業環境監測 I (2學分)		2	2											2	0						Required 必修
Departmental Required Courses 專業必修	Y3-S1 Required 三上必修	[DP4490077] Environmental Monitoring Experiment for Workplaces I (1 Credit) 作業環境監測實驗 I (1學分)		1	2											0	2						Required 必修
Departmental Required Courses 專業必修	Y3-S1 Required 三上必修	[DP4490118] Practice Project V (1 Credit) 實務專題 V (1學分)		1	1											0	1						Required 必修
Departmental Required Courses 專業必修	Y3-S1 Required 三上必修	[DP4490014] Air pollution control(3 Credit) 空氣污染控制(3學分)		3	3											3	0						Required 必修
Departmental Required Courses 專業必修	Y3-S1 Required 三上必修	[DP4490025] Industrial Ventilation(2 Credit) 工業通風(2學分)		2	2											2	0						Required 必修
Departmental Required Courses 專業必修	Y3-S2 Required 三下必修	[DP4490119] Practice Project VI(1 Credit) 實務專題 VI(1學分)		1	1													0	1				Required 必修
Departmental Required Courses 專業必修	Y3-S2 Required 三下必修	[DP4490078] Environmental Monitoring for Workplaces II (2 Credit) 作業環境監測 II (2學分)		2	2													2	0				Required 必修
Departmental Required Courses 專業必修	Y3-S2 Required 三下必修	[DP4490140] Environmental Pollutant Analysis(3 Credit) 環境污染物分析(3學分)		3	3													3	0				Required 必修
Departmental Required Courses 專業必修	Y3-S2 Required 三下必修	[DP4490079] Environmental Monitoring Experiment for Workplaces II (1 Credit) 作業環境監測實驗 II (1學分)		1	2													0	2				Required 必修
Departmental Required Courses 專業必修	Y3-S2 Required 三下必修	[DP4490124] Practices of Entrepreneurship(3 Credit) 污水工程(3學分)		3	3													3	0				Required 必修
Departmental Required Courses 專業必修	Y4-S1 Required 四上必修	[DP4490138] Practices of Entrepreneurship(2 Credit) 創業實作(2學分)		2	2															0	2		Required 必修
Departmental Required Courses 專業必修	Y4-S1 Required 四上必修	[DP4490017] Waste Management(3 Credit) 廢棄物處理(3學分)		3	3															3	0		Required 必修
Departmental Required Courses 專業必修	Y4-S2 Required 四下必修	[DP4490110] Environmental Planning and Management(3 Credit) 環境規劃與管理(3學分)		3	3																3	0	Required 必修
Departmental Required Courses 專業必修	Y4-S2 Required 四下必修	[DP4490010] Industrial Toxicology(2 Credit) 工業毒物學(2學分)		2	2																2	0	Required 必修
Subtotal / 小計				52	55	27	2	1	3	3	6	1	7	1	7	3	8	3	3	2	5	0	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490033] Environmental Education(2 Credit) 環境教育(2學分)		2	2		2	0															Elective 選修

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Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490145] Develop & Experiment of Green Resources Products(2 Credit) 綠色資源產品開發暨實作(2學分)		2	2		2	0														Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490037] Enviornmental Health(2 Credit) 環境衛生學(2學分)		2	2		2	0														Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490125] Physical(2 Credit) 物理(2學分)		2	2		2	0														Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490034] Environmental Ethics(2 Credit) 環境倫理(2學分)		2	2				2	0												Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490036] Electrical Engineering(2 Credit) 電工學(2學分)		2	2				2	0												Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490042] Introduction to Occuptaional Medicine(2 Credit) 職業病概論(2學分)		2	2				2	0												Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490127] Fire Science(2 Credit) 火災學(2學分)		2	2						2	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490035] Climate change adaptation(2 Credit) 氣候變遷調適(2學分)		2	2						2	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490139] Environmental Microbiology(3 Credit) 環境微生物學(3學分)		3	3						3	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490044] Fire Regulations(2 Credit) 消防法規(2學分)		2	2						2	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490151] Noise Vibration and Control(3 Credit) 噪音振動控制(3學分)		3	3						3	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490040] Energy Management of Industry(2 Credit) 產業能源管理(2學分)		2	2						2	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490128] Mechanical & Electrical Protection(2 Credit) 機電防護(2學分)		2	2						2	0										Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490046] Indoor Air Quality (including experiments)(2 Credit) 室內空氣品質（含實驗）(2學分)		2	3								1	2								Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490147] Process Safety Management(2 Credit) 製程安全管理(2學分)		2	2								2	0								Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490131] Fluid Mechanics(3 Credit) 流體力學(3學分)		3	3								3	0								Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490142] Engineering Graphics(2 Credit) 工程圖學(2學分)		2	2								2	0								Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490038] Inventory of Greenhouse Air and Carbon Footprint Management(3 Credit) 溫室氣體盤查與碳足跡管理(3學分)		3	3								3	0								Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490132] Water Treatment Engineering(3 Credit) 水處理工程(3學分)		3	3										3	0						Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490149] Operation in Enviromental units and Experiment(3 Credit) 環工單元操作及實驗(3學分)		3	3										3	0						Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490082] Environmental Pollution Control Technology(3 Credit) 環境污染防治技術(3學分)		3	3										3	0						Elective 選修	

Course Type 科目類別	Requirement Group 條件群組	Course Title 科目名稱	Module Name 模組名稱	Credits 開課學分	Hours 開課時數	Items 開課項目	1st Academic Year 第1學年				2nd Academic Year 第2學年				3rd Academic Year 第3學年				4th Academic Year 第4學年				Remarks 備註
							1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		
							Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490052] Fire and Explosion Protection(2 Credit) 防火與防爆(2學分)		2	2										2	0							Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490050] Teaching Materials and Methods for Environmental Education(2 Credit) 環境教育教材教法(2學分)		2	2										2	0							Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490143] Industry Sustainability and Resource Reuse(2 Credit) 產業永續及資源再利用(2學分)		2	2										2	0							Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490053] Exposure Assessment(2 Credit) 暴露評估(2學分)		2	2										2	0							Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490066] Work Environmental Control Engineering(2 Credit) 作業環境控制工程(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490091] Instrumental analysis and experiment(3 Credit) 儀器分析及實驗(3學分)		3	3												3	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490144] Fire Prevention Equipment(2 Credit) 消防安全設備(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490058] Law and Regulaions of Environmental Protection(2 Credit) 環境保護法規(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490134] Environmental Pollutant Analysis Experiment(2 Credit) 環境污染物分析實驗(2學分)		2	3												0	3					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490059] International Standardization Certification(2 Credit) 國際標準認證(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490054] Industrial Safety Engineering(2 Credit) 工業安全工程(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490133] Management of Hazardous Materials(2 Credit) 有害物質管理(2學分)		2	2												2	0					Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490106] Internship II (2 Credit) 校外實習 II (2學分)		2	3														0	3			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490064] dust measurement and control(2 Credit) 粉塵測定與控制(2學分)		2	2														2	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490056] Enviromental Impeact Assement(3 Credit) 環境影響評估(3學分)		3	3														3	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490080] Soil and Groundwater Pollution Control(3 Credit) 土壤與地下水污染防治(3學分)		3	3														3	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490085] Renewable resources engineering(3 Credit) 資源再生工程技術(3學分)		3	3														3	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490062] Facilities Planning(2 Credit) 設施規劃(2學分)		2	2														2	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490148] Water Treatment Engineering Design(3 Credit) 水處理工程設計(3學分)		3	3														3	0			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490150] Internship I(2 Credit) 校外實習 I(2學分)		2	3														0	3			Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490081] Water Resource Management(3 Credit) 水資源管理(3學分)		3	3														3	0			Elective 選修

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							1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		1st Semester 第一學期		2nd Semester 第二學期		
							Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	Lecture 授課	Lab 實習	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490152] Risk Assessment(2 Credit) 風險評估(2學分)		2	2															2	0	Elective 選修	
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490063] Industrial Management(2 Credit) 工業管理(2學分)		2	2																2	0	Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490060] Practices in Factory Inspection(2 Credit) 工廠實務檢查(2學分)		2	2																2	0	Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490075] Emergency Response and disaster management(2 Credit) 緊急應變與災變管理(2學分)		2	2																2	0	Elective 選修
Departmental Elective Courses 專業選修	Departmental Elective 專業選修	[DP4490107] Internship III(3 Credit) 校外實習 III(3學分)		3	4																0	4	Elective 選修
Subtotal / 小計				26	26	13	8	0	6	0	16	0	11	2	17	0	15	3	19	6	8	8	
Total / 合計				128	132	67	25	1	22	3	33	1	30	3	30	3	25	6	24	8	13	4	Total Credits: 212 Total Hours: 202 Total Practical Hours: 29 總學分：212 總時數：202 總實習：29
Notes (English) 註記 (中文)																							