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

2025 School Year

LastEditDate：2025-03-31

CourseType	RecommendedYearOfStudy	CourseTitle	ModuleName	Cs	Hr	Rs	1st Academic Year				2nd Academic Year				3rd Academic Year				4th Academic Year				Memo
							1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		
							Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	
General Courses		[000001008]Chinese Reading and Writing I(2 Credit)		2	2	1	2	0															
		[000001137]Physical Education I(2 Credit)		2	2	1	2	0															
		[000001147]Learning and Practice of Clubs I(1 Credit)		1	1	1	1	0															
		[000001153]English for Daily Conversation I(2 Credit)		2	2	1	2	0															
		[000001219]Life Education and Sustainable Development(1 Credit)		1	1	1	1	0															
		[000001009]Chinese Reading and Writing II(2 Credit)		2	2	1			2	0													
		[000001138]Physical Education II(2 Credit)		2	2	1			2	0													
		[000001148]Learning and Practice of Clubs II(1 Credit)		1	1	1			1	0													
		[000001154]English for Daily Conversation II(2 Credit)		2	2	1			2	0													
		[000000021]Creative Thinking and Application(2 Credit)		2	2	1					2	0											
		[000001150]Service Learning(1 Credit)		1	1	1					1	0											
		[000001208]University Social Responsibility and Practice in Tajen(2 Credit)		2	2	1					2	0											
		[000001146]Program Design and Logical Calculus(2 Credit)		2	2	1							2	0									
		[000001218]Introduction to Artificial Intelligence(2 Credit)		2	2	1							2	0									
		[000001220]Introduction to Long-Term Care(2 Credit)		2	2	1							2	0									
(Subtotal：26)				26	26	15	8	0	7	0	5	0	6	0	0	0	0	0	0	0	0	0	
General Elective Courses		[000000043]All-out Defense Education Military Training I(0 Credit)		0	2	1	2	0															
		[000000044]All-out Defense Education Military Training II(0 Credit)		0	2	1			2	0													
		[000000045]All-out Defense Education Military Training III(0 Credit)		0	2	1					2	0											
		[000000046]All-out Defense Education Military Training IV(0 Credit)		0	2	1							2	0									
		[000000017]The Field of Natural Science(2 Credit)		2	2	1									2	0							
		[000000047]All-out Defense Education Military Training V(0 Credit)		0	2	1									2	0							
		[000000018]The Field of Social Science(2 Credit)		2	2	1											2	0					
		[000001000]The Field of Arts and Humanities(2 Credit)		2	2	1													2	0			
(Subtotal：6)				6	16	8	2	0	2	0	2	0	2	0	4	0	2	0	2	0	0	0	
College Courses		[DP4000010]Chemistry(2 Credit)		2	2	1	2	0															
		[DP4000020]Biology(2 Credit)		2	2	1	2	0															
		[DP4000003]Physiology(2 Credit)		2	2	1			2	0													
		[DP4000039]Career Ethics(2 Credit)		2	2	1					2	0											
		[DP4000023]Biostatistics(2 Credit)		2	2	1							2	0									
(Subtotal：10)				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		[000001182]Cross-Disciplinary Program I(2 Credit)		2	2	1			2	0													
		[000001183]Cross-Disciplinary Program II(2 Credit)		2	2	1					2	0											
		[000001184]Cross-Disciplinary Program III(2 Credit)		2	2	1							2	0									
		[000001185]Cross-Disciplinary Program IV(2 Credit)		2	2	1									2	0							
(Subtotal：8)				8	8	4	0	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	
Departmental Required Courses		[DP4490069]Occupational Safety(2 Credit)		2	2	1	2	0															
		[DP4490114]Practice Project I(1 Credit)		1	1	1	0	1															
		[DP4490001]Introduction to Environmental Science(2 Credit)		2	2	1			2	0													
		[DP4490115]Practice Project II(1 Credit)		1	1	1			0	1													
		[DP4490141]Advanced Chemistry(including experiments)(2 Credit)		2	1	1			1	2													
		[DP4490011]Construction Safety(2 Credit)		2	2	1					2	0											
		[DP4490067]The Law of Occupational Safety and Heath(2 Credit)		2	2	1					2	0											
		[DP4490068]Occupational Hygiene(2 Credit)		2	2	1					2	0											
		[DP4490116]Practice Project III(1 Credit)		1	1	1					0	1											
		[DP4490005]Environmental Chemistry(3 Credit)		3	3	1							3	0									
		[DP4490030]Ergonomics(2 Credit)		2	2	1							2	0									
		[DP4490117]Practice Project IV(1 Credit)		1	1	1							0	1									
		[DP4490121]Occupational Safety and Health Management(2 Credit)		2	2	1							2	0									
		[DP4490006]Environmental Microbiology(3 Credit)		3	3	1									3	0							
		[DP4490014]Air pollution control(3 Credit)		3	3	1									3	0							
		[DP4490025]Industrial Ventilation(2 Credit)		2	2	1									2	0							
		[DP4490118]Practice Project V(1 Credit)		1	1	1									0	1							
		[DP4490119]Practice Project VI(1 Credit)		1	1	1											0	1					
		[DP4490124]Practices of Entrepreneurship(3 Credit)		3	3	1											3	0					
		[DP4490140]Environmental Pollutant Analysis(3 Credit)		3	3	1											3	0					
		[DP4490156]Environmental Monitoring for Workplaces(2 Credit)		2	2	1											2	0					
		[DP4490157]Environmental Monitoring Experiments for Workplaces(1 Credit)		1	2	1											0	2					
		[DP4490017]Waste Management(3 Credit)		3	3	1													3	0			
		[DP4490120]Practice of Entrepreneurship(2 Credit)		2	2	1													2	0			
		[DP4490010]Industrial Toxicology(2 Credit)		2	2	1															2	0	
		[DP4490110]Environmental Planning and Management(3 Credit)		3	3	1															3	0	
(Subtotal：52)				52	52	26	2	1	3	3	6	1	7	1	8	1	8	3	5	0	5	0	
Departmental Elective Courses		[DP4490033]Environmental Education(2 Credit)		2	2	1	2	0															

	[DP4490037]Enviormental Health(2 Credit)		2	2	1	2	0																
	[DP4490125]Physical(2 Credit)		2	2	1	2	0																
	[DP4490145]Develop & Experiment of Green Resources Products(2 Credit)		2	2	1	2	0																
	[DP4490034]Environmental Ethics(2 Credit)		2	2	1			2	0														
	[DP4490036]Electrical Engineering(2 Credit)		2	2	1			2	0														
	[DP4490042]Introduction to Occuptaional Medicine(2 Credit)		2	2	1			2	0														
	[DP4490153]English for Workplaces in Environment and Occupational Safety(2 Credit)		2	2	1			2	0														
	[DP4490035]Climate change adaptation(2 Credit)		2	2	1					2	0												
	[DP4490040]Energy Management of Industry(2 Credit)		2	2	1					2	0												
	[DP4490044]Fire Regulations(2 Credit)		2	2	1					2	0												
	[DP4490127]Fire Science(2 Credit)		2	2	1					2	0												
	[DP4490128]Mechanical & Electrical Protection(2 Credit)		2	2	1					2	0												
	[DP4490139]Environmental Microbiology(3 Credit)		3	3	1					3	0												
	[DP4490151]Noise Vibration and Control(3 Credit)		3	3	1					3	0												
	[DP4490038]Inventory of Greenhouse Air and Carbon Footprint Management(3 Credit)		3	3	1							3	0										
	[DP4490046]Indoor Air Quality (including experiments)(2 Credit)		2	1	1							1	2										
	[DP4490131]Fluid Mechanics(3 Credit)		3	3	1							3	0										
	[DP4490142]Engineering Graphics(2 Credit)		2	2	1							2	0										
	[DP4490147]Process Safety Management(2 Credit)		2	2	1							2	0										
	[DP4490154]Smart Monitoring in Environment and Occupational Safety and Hygiene(2 Credit)		2	2	1							2	0										
	[DP4490050]Teaching Materials and Methods for Environmental Education(2 Credit)		2	2	1									2	0								
	[DP4490052]Fire and Explosion Protection(2 Credit)		2	2	1									2	0								
	[DP4490053]Exposure Assessment(2 Credit)		2	2	1									2	0								
	[DP4490082]Environmental Pollution Control Technology(3 Credit)		3	3	1									3	0								
	[DP4490132]Water Treatment Engineering(3 Credit)		3	3	1									3	0								
	[DP4490143]Industry Sustainability and Resource Reuse(2 Credit)		2	2	1									2	0								
	[DP4490149]Operation in Enviromental units and Experiment(3 Credit)		3	3	1									3	0								
	[DP4490155]Low-Carbon Management Technology(2 Credit)		2	2	1									2	0								
	[DP4490054]Industrial Safety Engineering(2 Credit)		2	2	1											2	0						
	[DP4490058]Law and Regulaions of Environmental Protection(2 Credit)		2	2	1											2	0						
	[DP4490059]International Standardization Certification(2 Credit)		2	2	1											2	0						
	[DP4490066]Work Environmental Control Engineering(2 Credit)		2	2	1											2	0						
	[DP4490091]Instrumental analysis and experiment(3 Credit)		3	3	1											3	0						
	[DP4490133]Management of Hazardous Materials(2 Credit)		2	2	1											2	0						
	[DP4490144]Fire Prevention Equipment(2 Credit)		2	2	1											2	0						
	[DP4490056]Enviromental Impeact Assement(3 Credit)		3	3	1													3	0				
	[DP4490062]Facilities Planning(2 Credit)		2	2	1													2	0				
	[DP4490064]dust measurement and control(2 Credit)		2	2	1													2	0				
	[DP4490080]Soil and Groundwater Pollution Control(3 Credit)		3	3	1													3	0				
	[DP4490081]Water Resource Management(3 Credit)		3	3	1													3	0				
	[DP4490085]Renewable resources engineering(3 Credit)		3	3	1													3	0				
	[DP4490106]Internship II(2 Credit)		2	3	1													0	3				
	[DP4490134]Environmental Pollutant Analysis Experiment(2 Credit)		2	3	1													0	3				
	[DP4490148]Water Treatment Engineering Design(3 Credit)		3	3	1													3	0				
	[DP4490150]Internship I(2 Credit)		2	3	1													0	3				
	[DP4490060]Practices in Factory Inspection(2 Credit)		2	2	1															2	0		
	[DP4490063]Industrial Management(2 Credit)		2	2	1															2	0		
	[DP4490075]Emergency Response and disaster management(2 Credit)		2	2	1															2	0		
	[DP4490107]Internship III(3 Credit)		3	4	1															0	4		
	[DP4490152]Risk Assessment(2 Credit)		2	2	1															2	0		
(Subtotal：26)			116	119	51	8	0	8	0	16	0	13	2	19	0	15	0	19	9	8	4		
(Total:128)			218	231	109	24	1	24	3	33	1	32	3	33	1	25	3	26	9	13	4	Subtotal ：218(Cs)210(Lb)25(Le)	

CourseType	RecommendedYearOfStudy	CourseTitle	ModuleName	Cs	Hr	Rs	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Le	Lb	Memo
							1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		
							1st Academic Year				2nd Academic Year				3rd Academic Year				4th Academic Year				

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