Department of Civil Engineering and Geomatics

Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Prog	gram	Four-year technical college program of the Day Division										
Gro	oup	None										
Class Type		Regular Class										
Special Program		None										
Curriculum Committee		Department Curriculum 114.04.15										
		College Curriculum	114. 05. 16									
		University Curriculum	iversity Curriculum 114.06.09									
		Academic Affairs 114.06.09										
Graduation /Study D		At least 128 credits required (normally 4 years).										
Credit I Seme		Students in Grades 1 and 2 must take no fewer than 16 credits and no more than 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.										
Required an	nd Elective	Credits	Subject Category			Credits						
			General Education			22 Credits						
Requ	ired	90 Credits	Major Required			68 Credits						
			College Major			0 Credits						
			General Education			8 Credits						
Elec	tive	38 Credits	Major Elective			30 Credits						
Other Regulations		跨科系部選修至多採認8學分										
Rema	ırks	"Computer Course" mean	ns com	puter	access is n	required (c	omputer and internet us	sage f	ee).			
First S		emester, First Year	rst Year			Second Semester, First Year						
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes			
General Education	496135	Chinese(1)	2/2		General Education	496235	Chinese(2)	2/2				
General Education	492001		2/2		General Education	496435	Contemporary Taiwan and Moder World	2/2				
General Education	4912A0	physical education (1)	1/2		General Education	492002	English (II)	2/2				
General Education	490135	Community Service and Learning(1)	0/1		General Education	4912B0	physical education (2)	1/2				
General Education	497A00		2/2		General Education	490235	Community Service and Learning(2)	0/1				
Major Required	435601	Physics (1)	3/3		General Education	497B00		2/2				
Major Required	435604	Calculus (1)	3/3		Major Required	435602	Physics (2)	3/3				
Major Required	435A50	Introduction to Civil Engineering and Geomatics	1/1		Major Required	435603	Laboratory of Physics	1/2				
Major Required	435A51	Fundamental Mathematics Drilling	1/2		Major Required	435605	Calculus (2)	3/3				
Major Required	435606	Chemistry	3/3		Major Required	435A53	Engineering Material	2/2				
Major Elective	435012	Morality and Professional Ethics	2/2		Major Required	435A81	Engineering Mechanics	2/2				
Major Elective	435N50	Career student Counselling	2/2		Major Required	435005	Computational Thinking and Creative Programming	2/3	Compu ter Cours e			

	22 Credits, 25 Hours					22 (Credits, 26 Hours				
First Semester, Second Year					Second Semester, Second Year						
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes		
General Education	492003	English(III)	2/2		General Education	496335	Practical Chinese	2/2			
General Education	4913C0	physical education (3)	1/2		General Education	496535	Human Rights and Legal	2/2			
General Education	497C00		2/2		General Education	492004	English (IV)	2/2			
Major Required	435607	Programming Language	2/3	Compu ter Cours e	General Education Core Required	4913D0	physical education (4)	1/2			
Major Required	435A54	Material Testing	1/3		General Education	497D00		2/2			
Major Required	435A55	Project Management and Practice	1/3		Major Required	435A61	Theory of Structures(1)	3/3			
Major Required	435A56	Mechanics of Materials	2/2		Major Required	435A62	Reinforced Concrete(1)	3/3			
Major Required	435A57	Surveying	2/2		Major Required	435A65	Drawing Engineering(2)	1/3	Compu ter Cours e		
Major Required	435A58	Surveying Practice	1/3		Major Required	435A80	Engineering Mathematics(1)	3/3			
Major Required	435A59	Engineering drawing (1)	1/3	Compu ter Cours e	Major Required	435B08	Theory and Practice for Protioning Concret Mixing	2/2			
Major Required	435A85	Numerical Methods	2/2	Compu ter Cours e	Major Elective	435R33	Engineering Surveying	2/2			
Major Elective	435N51	Originality Thinking Training	2/2								
	10 (Credits, 29 Hours				23 (Credits, 26 Hours				
		Semester, Third Year					Semester, Third Year				
Course	Course	Course Name	Credits	Notes	Course	Course	Course Name	Credits	Notes		
Major Required	435A83	Soil Mechanics	Hours 3/3		Major Required	435B15	Soil Mechanics	Hours 2/2			
Major Required	435A84	constraction drawing	2/2		Major Required	435A72	Testing Foundation Engineering	2/2			
Major Elective	435033	Construction Management Practice	2/2		Major Required	435A86	Structural Steel Design	3/3			
Major Elective	435N53	Theory of Structures (2)	3/3		Major Required	435B10	Concrete Technology of Construction	2/2			
Major Elective	435N54	Reinforced Concrete(2)	3/3		Major Elective	435N63	Occupational health and safety	2/2			
Major Elective	435N56	Road Engineerging	2/2		Major Elective	435N65	Construction Provisions	2/2			
Major Elective	435N60	Foundation Construction	2/2	Compu ter Cours e	Major Elective	435N66	Structural Steel Design	3/3			
Major Elective	435N61	Building Information Model	2/2	Compu ter Cours e	Major Elective	435N68	Pavement Technology	2/2			
	435009	Summer Off-campus	2/2		Major Elective	435014	Topographic Surveying	2/2			
Major Elective		Internship				i		t			
Major Elective Major Elective	435013	Internship Cadastral Surveying	2/2		Major Elective	435020	Three-dimensional visual design (1)	3/3	ter Cours		
Elective Major	435013		3/3			435020 435R20		2/2			

Major Elective	435R17	Fluid Mechanics	2/2		Major Elective	435R26	Hydrology	2/2			
Major Elective	435R43	Environmental Engineering	2/2		Major Elective	435R27	Basic Professional Counseling	3/3			
		0 11 0 0 V									
	32 Credits, 32 Hours					33 Credits, 33 Hours					
		emester, Fourth Year	0 111	I	_		Semester, Fourth Year	0 111	I.		
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes		
General Education	492135	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1			
Major Required	435B16	Analysis of Mechanics Testing	2/2		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1			
Major Required	435A87	Computer Applications in Engineering	2/2	Compu ter Cours e	Major Required	435A77	Professional ability test	0/2			
Major Required	435B09	Practical Project	2/2		Major Elective	435N76	Geographic Information System	2/2	Compu ter Cours e		
Major Elective	435N70	Prestressed Concrete	3/3		Major Elective	435N77	Introduction of Earth Quake Engineering	2/2			
Major Elective	435N72	Foundation Construction	2/2		Major Elective	435N79	Structural Steel Engineering	2/2			
Major Elective	435N74	Methods of Civil Engineering	2/2		Major Elective	435N80	Tunnel Engineering	3/3			
Major Elective	435N75	Construction Estimates and Costs	2/2		Major Elective	435N81	Introduction of Deep Excavation Engineering	2/2			
Major Elective	435010	Semester Off-Campus Internship(1)	9/9		Major Elective	435011	Semester Off-Campus Internship(2)	9/9			
Major Elective	435015	The Adjustment of Surveying	3/3		Major Elective	435016	Geodetic Surveying(Including Practice)	3/3			
Major Elective	435017	Remote Sensing	2/2	Compu ter Cours e	Major Elective	435019	UAV control and verification	2/2			
Major Elective	435R21	Conservation of Water and Soil Project	2/2		Major Elective	435R24	Hillside Developing Engineering	3/3			
Major Elective	435R23	Construction Contracts and Techanical Provisions	2/2		Major Elective	435R29	Advanced Professional Counseling	3/3			
Major Elective	435R28	Professional Professional Counseling	3/3		Major Elective	435R32	quality management	2/2			
Major Elective	435R31	Patent Research and Development Practice	2/2		Major Elective	435R46	Technology application of construction industry	2/2			
Major Elective	435R45	Engineer Planning and risk evaluation	2/2								
Major Elective	435R62	Engineering Statistics	2/2								
	19	Credits, 44 Hours				25 (Credits, 39 Hours				
42 Credits, 44 Hours						ეე (OTCUTIO, OF HOULS				