Department of Civil Engineering and Geomatics

Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Prog	gram	Four-year technical co	ollege	progr	am of the I	Day Divisio	n				
Gro	oup	None									
Class	з Туре	Regular Class									
Special	Program	None									
		Department Curriculum 114.04.15									
		College Curriculum 114.05.16									
Curriculum	n Committee	University Curriculum 114.06.09									
		Academic Affairs 114.06.09									
	on Credits Duration	At least 128 credits required (normally 4 years).									
	Load per ester	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 a	nd Elective	Credits	Su	bject	Category	Credits					
			General Education			16 Credits					
Requ	iired	88 Credits	Major Required			72 Credits					
			College Major			0 Credits					
			General Education			8 Credits					
Elec	ctive	40 Credits	Major Elective			32 Credits					
Other Reg	gulations	跨科系部選修至多採認8	學分								
Rema	arks	"Computer Course" mean	ns com	puter	access is n	required (c	computer and internet us	sage f	ee).		
	First S	emester, First Year				Second S	Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes		
General Education	435001	Chinese(1)	2/2		General Education	435002	Chinese(2)	2/2			
General Education	400E00	English(I)	2/2		General Education	400F00	English(II)	2/2			
General Education	43500D	Community Service & Learning(1)	0/1		General Education	43500E	Community Service & Learning(2)	0/1			
General Education	400A00	physical education (1)	1/2		General Education	400B00	physical education (2)	1/2			
General Education	300A00	(-)	2/2		General Education	300B00	General Courses (II)	2/2			
Major Required	435601	Physics (1)	3/3		Major Required	435A79	Contemporary Taiwan and Modern World	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 Required	435018	Labor education (1)	0/1		Major Required	435A81	Engineering Mechanics	2/2			
Major Elective	435012	Morality and Professional Ethics	2/2		Major Required	435005	Computational Thinking and Creative Programming	2/3	Compu ter Cours e		
Major Elective	435N50	Career student Counselling	2/2		Major Required	435019	Labor education (2)	0/1			

22 Credits, 26 Hours					22 Credits, 27 Hours					
	First S	emester, Second Year				Second S	Semester, Second Year			
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
General Education	400G00	English(III)	2/2		General Education	400H00	English (IV)	2/2		
General Education	400C00	Physical Education (III)	1/2		General Education	400D00	physical education (4)	1/2		
General Education	300C00		2/2		General Education	300D00	General Courses (IV)	2/2		
Major Required	435607	Programming Language	2/3	Compu ter Cours e	Major Required	435003	Practical Chinese	2/2		
Major Required	435A54	Material Testing	1/3		Major Required	435004	Human Rights and Legal Education	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	435A63	Theory and Practice for Protioning Concret Mixing	1/3		
Major Required	435A58	Surveying Practice	1/3		Major Required	435A65	Drawing Engineering(2)	1/3	Compu ter Cours e	
Major Required	435A59	Engineering drawing (1)	1/3	Compu ter Cours e	Major Required	435A80	Engineering Mathematics(1)	3/3		
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							
	19	Credits, 29 Hours				22 (Credits, 27 Hours			
	First S	Semester, Third Year			Second Semester, Third Year					
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
Major Required	435A68	Construction Management Practice	1/3		Major Required	435A70	Soil Mechanics Testing	1/3		
Major Required	435A83	Soil Mechanics	3/3		Major Required	435A72	Foundation Engineering	2/2		
Major Required	435A84	constraction drawing	2/2		Major Required	435A86	Structural Steel Design	3/3		
Major Elective	435N53	Theory of Structures (2)	3/3		Major Elective	435N62	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		
Major Elective	435009	Summer Off-campus Internship	2/2		Major Elective	435014	Topographic Surveying	2/2		
FIGUIVE			0.70		Major	495090	Three-dimensional	3/3	Compu	
Major Elective	435013	Cadastral Surveying	2/2		Elective	435020	visual design (1)	J/ J	ter Cours	

Major Elective	435R16	Engineering Mathematics(2)	2/2		Major Elective	435R22	Engineering Geology	3/3		
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		
	31	Credits, 33 Hours				20	Cradita 24 Haura			
			32 Credits, 34 Hours Second Semester, Fourth Year							
First Semester, Fourth Year Course Course Name Credits Notes					· · · · · · · · · · · · · · · · · · ·					
	Course		/ Hours	Notes		Course		Hours	notes	
Major Required	435012	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1		
Major Required	435A74	Practical Project	2/3		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1		
Major Required	435A75	Engineering Statistics	2/2		Major Required	435A76	Analysis of Mechanics Testing	1/3		
Major Required	435A87	Computer Applications in Engineering	2/2	Compu ter Cours e	Major Required	435A77	Professional ability test	0/2		
Major Elective	435N70	Prestressed Concrete	3/3		Major Elective	435N76	Geographic Information System	2/2	Compu ter Cours e	
Major Elective	435N72	Foundation Construction	2/2		Major Elective	435N77	Introduction of Earth Quake Engineering	2/2		
Major Elective	435N74	Methods of Civil Engineering	2/2		Major Elective	435N79	Structural Steel Engineering	2/2		
Major Elective	435N75	Construction Estimates and Costs	2/2		Major Elective	435N80	Tunnel Engineering	3/3		
Major Elective	435010	Semester Off-Campus Internship(1)	9/9		Major Elective	435N81	Introduction of Deep Excavation Engineering	2/2		
Major Elective	435015	The Adjustment of Surveying	3/3		Major Elective	435011	Semester Off-Campus Internship(2)	9/9		
Major Elective	435017	Remote Sensing	2/2	Compu ter Cours e	Major Elective	435016	Geodetic Surveying(Including Practice)	3/3		
Major Elective	435R21	Conservation of Water and Soil Project	2/2		Major Elective	435019	UAV control and verification	2/2		
Major Elective	435R23	Construction Contracts and Techanical Provisions	2/2		Major Elective	435R24	Hillside Developing Engineering	3/3		
Major Elective	435R28	Professional Professional Counseling	3/3		Major Elective	435R29	Advanced Professional Counseling	3/3		
Major Elective	435R31	Patent Research and Development Practice	2/2		Major Elective	435R32	quality management	2/2		
Major Elective	435R48	Construction practice	3/3							
Major Elective	435R61	Engineering simulation applications	3/3	Compu ter Cours e						
Major Elective	435R40	The building Information modeling and model element establishment	3/3	Compu ter Cours e						
	47	Credits, 50 Hours	34 Credits, 40 Hours							