Department of Civil Engineering and Geomatics

Curriculum Requirements for Enrollees in the Academic Year 114 (Fall 2025)

Prog	gram	Four-year technical college program of the Day Division											
Gro	oup	None											
Class	Туре	Regular Class											
Special	Program	None											
Curriculum Committee		Department Curriculum	114.0	4. 15									
		College Curriculum	114.0	5. 16									
		University Curriculum	114.0	6. 09									
		Academic Affairs	114. 0	6. 09									
Graduation Credits /Study Duration		At least 128 credits required (normally 4 years).											
Credit Load per Semester		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 and Elective		Credits	Sul	oject	Category		Credits						
			Gen	eral E	Education		19 Cr	edits					
Requ	ired	90 Credits	Ma	ajor R	equired		71 Cr	edits					
-			С	ollege	Major	0 Credits							
		20.0	General Education			8 Credits							
Elec	tive	38 Credits	Ma	ajor E	lective	30 Credits							
Graduation		Course Title	Description Regul						lations/Notes				
English Certificate		English Proficiency Test(0/2)	Students must pass the General English Proficiency Test (GEPT) Basic Level (or equivalent) during their studies. 1. Principles : Implementation English Course English Profic Graduation Requirements						tion o urses oficie	ion of rses and ficiency			
Profes	sional	Professional	Students must obtain at least one Regulations of E							ach			
Other Reg	gulations	跨科系部選修至多採認8學分											
Rema	arks	"Computer Course" mear Graduation Requirement 「G03」: English Profi 「G05」: Professional	s: cienc	· v Cert	ificate	required (c	omputer and	internet us	sage f	ee).			
	First Se	emester, First Year				Second S	Semester, Fi	rst Year					
Course	Course	Course Name	Credits Notes Course			Course	Course Name		Credits / Hours	Notes			
General Education	496835	Literary Appreciation and Expression	2/2		General Education	496435	Contemporar and Moder V	ry Taiwan World	2/2				
General Education	492001		2/2	2/2 General 496735 Human Right Legal			ts and	2/2					
General Education	4912C0	Physical Education(1)	2/2 General 49693 Education		496935	Practical Chinese		2/2					
General Education	490335	Community Service & Learning(1)	0.5/1		General Education	492002	English (II)		2/2				
General Education	497A00		2/2		General Education	4912D0	Physical Education(2)		2/2				
Major Required	435601	Physics (1)	3/3 General Education 490435 Community Structure Learning(2)				0.5/1						
Major 435604 Calc		Calculus (1)	3/3		General Education	497B00			2/2				

Major Required	435A50	Introduction to Civil Engineering and Geomatics	1/1		Major Required	435602	Physics (2)	3/3	
Major Required	435B11	Computational Thinking and Creative Programming	3/3	Compu ter Cours e	Major Required	435609	Laboratory of Physics	2/2	
Major Elective	435012	Morality and Professional Ethics	2/2		Major Required	435A89	Engineering Mechanics	3/3	
Major Elective	435R58	Fundamental Mathematics Drilling	2/2		Major Required	435A90	Engineering Material	3/3	
Major Elective	435N50	Career student Counselling	2/2		Major Elective	435R59	Calculus (2)	3/3	
					Major Elective	435S06	Sustainable Development Goals	2/2	
	24. 5	Credits, 25 Hours					Credits, 29 Hours		
-	I	emester, Second Year	C1:4-	I	-		emester, Second Year	C1:1-	I
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	492003	English(III)	2/2		General Education	497D00		2/2	
General Education	497C00		2/2		Major Required	435A61	Theory of Structures(1)	3/3	
Major Required	435B13	Surveying Practice	2/2		Major Required	435A62	Reinforced Concrete(1)	3/3	
Major Required	435610	Programming Language	3/3	Compu ter Cours e	Major Required	435A80	Engineering Mathematics(1)	3/3	
Major Required	435A57	Surveying	2/2		Major Required	435A95	Theory and Practice for Protioning Concret Mixing	3/3	
Major Required	435A92	Material Mechanics	3/3		Major Elective	435R33	Engineering Surveying	2/2	
Major Required	435A94	Engineering drawing (1)	3/3	Compu ter Cours e	Major Elective	435R52	Environmental Engineering	2/2	
Major Required	435B12	Material Testing	2/2		Major Elective	435R55	Drawing Engineering(2)	3/3	Compu ter Cours e
Major Elective	435N51	Originality Thinking Training	2/2						
Major Elective	435R54	Numerical Methods	2/2	Compu ter Cours e					
	23 (Credits, 23 Hours				21 (Credits, 21 Hours		
	First S	Semester, Third Year				Second S	Semester, Third Year		
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
Major Required	435A83	Soil Mechanics	3/3		Major Required	435B15	Soil Mechanics Testing	2/2	
Major Required	435A84	constraction drawing	2/2		Major Required	435A72	Foundation Engineering	2/2	
Major Required	435A98	Construction Management	2/2		Major Required	435A86	Structural Steel Design	3/3	
Major Required	435B14	Fluid Mechanics	3/3		Major Elective	435N60	Foundation Construction	2/2	Compu ter Cours e
Major Elective	435N53	Theory of Structures (2)	3/3		Major Elective	435N65	Construction Provisions	2/2	
Major Elective	435N54	Reinforced Concrete(2)	3/3		Major Elective	435N66	Structural Steel Design	3/3	
Major Elective	435N56	Road Engineerging	2/2		Major Elective	435N68	Pavement Technology	2/2	

Major Elective	435N61	Building Information Model	2/2	Compu ter Cours e	Major Elective	435014	Topographic Surveying	2/2	
Major Elective	435N63	Occupational health and safety	2/2		Major Elective	435020	Three-dimensional visual design (1)	3/3	Compu ter Cours e
Major Elective	435009	Summer Off-campus Internship	2/2		Major Elective	435R06	Concrete Technology of Construction	2/2	
Major Elective	435013	Cadastral Surveying	2/2		Major Elective	435R20	Global Navigation Satellite System	2/2	
Major Elective	435018	UAV design and implementation	3/3		Major Elective	435R22	Engineering Geology	3/3	
Major Elective	435R16	Engineering Mathematics(2)	2/2		Major Elective	435R27	Basic Professional Counseling	3/3	
					Major Elective	435R50	Hydrology	3/3	
		Credits, 31 Hours					Credits, 34 Hours		
		emester, Fourth Year	Credits	N		1	emester, Fourth Year	Credits	N.
Course	Course	Course Name	Hours	Notes	Course	Course	Course Name	/ Hours	Notes
General Education	492135	English Proficiency qualification	0/2	G03	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	435B07	Computer Applications in Engineering	2/2	Compu ter Cours e	Major Required	435A77	Professional ability test	0/2	G05
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	435017	Remote Sensing	2/2	Compu ter Cours e	Major Elective	435016	Geodetic Surveying(Including Practice)	3/3	
Major Elective	435021	The Adjustment of Surveying	3/3		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	435R45	Engineer Planning and risk evaluation	2/2		Major Elective	435R46	Technology application of construction industry	2/2	
Major Elective	435R51	Conservation of Water and Soil Project	3/3						
Major Elective	435R57	Engineering Statistics	3/3						
Major Elective	435R60	Project Management	2/2						

46 Credits, 48 Hours						35 Credits, 39 Hours						