



Appendix 1-10: The Number of Hours and Credits for Each Module in Civil Engineering



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Module	Curriculum	Chinese Credits	ECE TS	total class hours	Contact hours	Self-study hours	Remarks
Mathematical physics	Advanced Mathematics A (1)	4.5	4.5	135	72	63	
	Advanced Mathematics A (2)	5	5	150	80	70	
	Linear Algebra A	2	2	60	32	28	
	Probability Theory and mathematical Statistics A	2.5	2.5	75	40	35	
	University Physics (1)	3	3	90	48	42	
	University Physics (2)	3	3	90	48	42	
	General Chemistry A	2.5	2.5	75	40	35	
	Mathematical Modeling	1.5	1.5	45	24	21	
	University physics Experiment	2	2	60	48	12	
Information technology	College students Computer Foundation	1.5	1.5	45	32	13	
	Computer Language	2.5	2.5	75	48	27	
Engineering foundation	Descriptive geometry	3	3	90	48	42	
	Civil Engineering Drawing (including CAD)	1.5	1.5	45	24	21	
	Rational Mechanics	4	4	120	64	56	
	Mechanics of Materials	3.5	3.5	105	56	49	
	Structural Mechanics (1)	3	3	90	48	42	
	Structural Mechanics (2)	2.5	2.5	75	40	35	
	Soil Mechanics	2.5	2.5	75	40	35	
	Hydrodynamics	2	2	60	32	28	
	Civil Engineering Materials	2.5	2.5	75	40	35	
	Engineering Survey B	3	3	90	56	34	
	Engineering Geology	2	2	60	32	28	
	Electrical and Electronic Training A	1	2	60	32	28	
	Engineering Geology Internship	1	2	60	32	28	
	Measurement Internship	2	3	90	64	26	
Goldsmithing Practice A	1	2	60	32	28		
Professional foundation	Foundation Work	2	2	60	32	28	
	Principles of Concrete Structure Design	4	4	120	64	56	
	Engineering Economy and Building Regulations	2	2	60	32	28	
	Introduction to Civil Engineering	1.5	1.5	45	24	21	
	Basic Principles of Steel Structure	2.5	2.5	75	40	35	
	Introduction to Seismic	1	1	30	16	14	



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	Engineering							
	Intensive Study	1	2.5	75	32	43		
Professional applications	Project Management	1	1	30	16	14		
	Construction Principles and Methods	3.5	3.5	105	56	49		
	Engineering Structure Load and Reliability Theory	1.5	1.5	45	24	21		
	High-rise Building Structure	2	2	60	32	28	Construction	
	Building Construction	2.5	2.5	75	40	35		
	Design of Steel Structure	3	3	90	48	42		
	Masonry Structure	2	2	60	32	28		
	Concrete Structure Design	3.5	3.5	105	56	49		
	Modular Construction	1.5	1.5	45	24	21		
	Construction Project Estimate and Budget	1.5	1.5	45	24	21		
	Construction of Building Works	2	2	60	32	28		
	Hydrology of Bridge and Culvert	1.5	1.5	45	24	21		Road bridge
	Road Survey and Design	2.5	2.5	75	40	35		
	Roadbed Pavement Works	3	3	90	48	42		
	Bridge Engineering (I)	3.5	3.5	105	56	49		
	Bridge Engineering (II)	2.5	2.5	75	40	35		
	Road and Bridge Construction Technology	2	2	60	32	28		
	Road Bridge Project Estimate and Budget	1.5	1.5	45	24	21		
	Traffic Engineering	1.5	1.5	45	24	21		
	Urban rail Transit Network Planning and Line Design	3	3	90	48	42	urban rail	
	Orbital Engineering	3	3	90	48	42		
	Tunnels and Underground Works	3	3	90	48	42		
	Railroad Bridge	2	2	60	32	28		
Urban Rail Transit Station	1.5	1.5	45	24	21			
Railroad Bed	2	2	60	32	28			
Urban Rail Project Estimate and Budget	1.5	1.5	45	24	21			
Road and Railway Engineering Construction Technology	2	2	60	32	28			
Professional practice	Course Design of Architectural Engineering	1	2	60	32	28		Construction
	Ribbed Beam Floor Course Design (including masonry)	1	2	60	32	28		
	Single Layer Industrial Plant Course Design	1	2	60	32	28		



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	Steel Structure Course Design	1	2	60	32	28	Road bridge
	Road survey and Design Course Design	1	2	60	32	28	
	Roadbed Pavement Engineering Course Design	1	2	60	32	28	
	Trench Wall Course Design	1	2	60	32	28	
	Bridge Engineering Course Design	1	2	60	32	28	
	Urban rail Transit Line Course Design	1	2	60	32	28	urban rail
	Orbital Engineering Course Design	1	2	60	32	28	
	Railway Bridge Course Design	1	2	60	32	28	
	Course Design of Tunnel and Underground Engineering	1	2	60	32	28	
	Experiments of Mechanics of Material	0.5	1	30	12	18	
	Building Materials test	0.5	1	30	16	14	
	Soil mechanics Experiment	0.5	1	30	12	18	
	Course Design of Concrete Structure Design Principle	1	2	60	32	28	
	Basic Engineering Course Design	1	2	60	32	28	
	Overview of Budgeting Course Design	1	2	60	32	28	
	Construction Organization Curriculum Design	1	2	60	32	28	
Graduating Education	0	2	60	32	28		
Professional developmen t category	Foundation of Innovation and Entrepreneurship	1	1.5	45	32	13	
	Literature Search and Research Methods	0.5	1	30	8	22	
	BIM Foundation	1	1	30	24	6	
	New Technology in Civil Engineering	0.5	1	30	16	14	
	Civil Engineering Structure Test Technology	1.5	1.5	45	32	13	
	Civil engineering Structure Testing Technology	1.5	1.5	45	32	13	
Comprehen sive Application	Construction Internship	4	10	300	120	180	
	Graduation Intership	2	4	120	50	70	
	Graduation comprehensive training	14	28	840	420	420	
Foreign Languages	College English (1)	3	3	90	48	42	
	College English (2)	3	3	90	48	42	
	College English Extension Series (1)	1.5	1.5	45	24	21	
	College English Extension Series (2)	1.5	1.5	45	24	21	



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	College English Practice (1)	0	1.5	45	32	13	
	College English Practice (2)	0	1.5	45	32	13	
	special English	2	2	60	32	28	
Humanities and social sciences	Ideological Morality and Rule of Law	3	3	90	48	42	
	Essentials of Chinese Modern History	3	3	90	48	42	
	Basic principles of Marxism	3	3	90	48	42	
	An overview of MAO Zedong Thought and the Theoretical System of Socialism With Chinese Characteristics	5	5	150	80	70	
	Situation and Policy	2	2	60	32	28	
	Mental Health Education for College Students	1	1.5	45	32	13	
	Career development and Employment Guidance for College Students (1)	0.5	1	30	20	10	
	Career development and Employment Guidance for College Students (2)	0.5	1	30	18	12	
	Military theory for college students	2	2	60	36	24	
	University Physical Education and Health (1)	1	1.5	45	32	13	
	University Physical Education and Health (2)	1	1.5	45	32	13	
	University Physical Education and Health (3)	0.5	1	30	16	14	
	University Physical Education and Health (4)	0.5	1	30	16	14	
	Introduction to Life Sciences	1	1	30	16	14	
	Introduction to Environmental Science	1	1	30	16	14	
	Enrollment education and Military Training	0	4	120	96	24	
	Social practice and Volunteer Service	1	2	60	32	28	
	An overview of Xi Jinpings Thought on Socialism with Chinese Characteristics for a New Era	3	3	90	40	50	
	Voluntary Work	0	2	60	60	0	