

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



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

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Appendix B-1: The Number of Hours and Credits for Each Module in Civil Engineering **Intensive Study** 2.5 **Project Management Construction Principles and** 3.5 Methods **Engineering Structure Load and** 1.5 **Reliability Theory High-rise Building Structure** 2.5 **Building Construction Design of Steel Structure Masonry Structure** Constru **Concrete Structure Design** 3.5 ction **Modular Construction** 1.5 **Construction Project Estimate and** 1.5 **Budget Construction of Building Works** Hydrology of Bridge and Culvert 1.5 **Road Survey and Design** 2.5 **Roadbed Pavement Works Bridge Engineering (I)** 3.5 **Bridge Engineering (II)** 2.5 Road **Professional** bridge **Road and Bridge Construction** applications **Technology** Road Bridge Project Estimate and 1.5 **Budget** Traffic Engineering 1.5 Urban rail Transit Network Planning and Line Design **Orbital Engineering Tunnels and Underground Works** Railroad Bridge urban **Urban Rail Transit Station** 1.5 rail Railroad Bed **Urban Rail Project Estimate and** 1.5 **Budget** Road and Railway Engineering **Construction Technology Course Design of Architectural Engineering** Ribbed Beam Floor Course Design **Professional** Constru (including masonry) practice ction Single Layer Industrial Plant **Course Design Steel Structure Course Design** 



Appendix B-1: The Number of Hours and Credits for Each Module in Civil Engineering Road survey and Design Course Design **Roadbed Pavement Engineering** Road **Course Design** bridge **Trench Wall Course Design Bridge Engineering Course Design Urban rail Transit Line Course** Design **Orbital Engineering Course Design** urban Railway Bridge Course Design rail Course Design of Tunnel and **Underground Engineering Experiments of Mechanics of** Material **Building Materials test** Soil mechanics Experiment **Course Design of Concrete Structure Design Principle Basic Engineering Course Design Overview of Budgeting Course** Design **Construction Organization Curriculum Design Graduating Education** Foundation of Innovation and 1.5 Entrepreneurship Literature Search and Research Methods **Professional BIM Foundation** developmen **New Technology in Civil** t category **Engineering Civil Engineering Structure Test** 1.5 **Technology Civil engineering Structure Testing** 1.5 Technology Comprehen **Construction Internship** sive graduation Field work Application Graduation comprehensive training College English (1) College English (2) Foreign **College English Extension Series (1)** 1.5 Languages **College English Extension Series (2)** 1.5 

1.5

**College English Practice (1)** 

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Appendix B-1: The Number of Hours and Credits for Each Module in Civil Engineering **College English Practice (2)** 1.5 special English Ideological Morality and Rule of Law **Essentials of Chinese Modern** History **Basic principles of Marxism** An overview of MAO Zedong Thought and the Theoretical **System of Socialism With Chinese** Characteristics Situation and Policy **Mental Health Education for** 1.5 **College Students** Career development and **Employment Guidance for College** Students (1) Career development and **Employment Guidance for College** Students (2) Humanities Military theory for college students and social **University Physical Education and** 1.5 sciences Health (1) **University Physical Education and** 1.5 Health (2) **University Physical Education and** Health (3) **University Physical Education and** Health (4) **Introduction to Life Sciences Introduction to Environmental** Science **Enrollment education and Military Training** Social practice and Volunteer Service An overview of Xi Jinpings **Thought on Socialism with Chinese** Characteristics for a New Era Voluntary Work