

Study Plan of Curriculum

Plan-First semester

Course Cluster	Name	Type	Chinese CP	ECTS CP	Workload	
					Contact Hours	Self-Study Hours
Mathematics and Natural Sciences	Advanced Mathematics A(1)	L	4.5	4.5	72	63
	University Chemistry	L&P	2	2	32	28
Informatics	Basic computer courses in college	L&P	2.5	2.5	40	35
Practical Training	National defense education entrance education	P	1	2	22	28
	Voluntary labour	P	1	2	22	28
Foreign Language	College English (1)	L	3	3	48	42
General	Ideology, morality and rule of law	L&P	2.5	2.5	40	22.5
	Situation and Policy (1)	L	0.5	0.5	8	4.5
	College Chinese A(including Technical Writing)	L	2	2	32	18
Quality Expansion	Physical Education (1)	L&P	1	1	36	14
	Cultural quality education (Chinese culture, natural science, etc.)	L	1	1	16	9
	Psychological and health education of college students	L&P	1	1	32	18
Total			22	24	400	310

Plan-Second semester

Course Cluster	Name	Type	Chinese CP	ECTS CP	Workload	
					Contact Hours	Self-Study Hours
Mathematics and Natural Sciences	Advanced Mathematics A(2)	L	6	6	96	84
	Linear algebra	L	2	2	32	28
	University Physics (1)	L	2.5	2.5	40	35
	University Physics Experiments (1)	L&P	1	1	16	14
Informatics	C language programming	L&P	4	4	64	56
Engineering Fundamentals	Drawing geometry B	L	2	2	32	28
	Introduction to civil engineering	L	1.5	1.5	24	21
Practical Training	English application ability practice	L&P	1	2	22	28
	Acquaintanceship Practice	P	1	2	22	28
Foreign Language	College English (2)	L	2	2	32	28
General	Situation and Policy (2)	L	0.5	0.5	8	4.5
Quality Expansion	Physical Education (2)	L&P	1	1	36	14
Total			24.5	26.5	424	368.5

Plan-Third semester

Course Cluster	Name	Type	Chinese CP	ECTS CP	Workload	
					Contact Hours	Self-Study Hours
Mathematics and Natural Sciences	Probability and statistics	L	2	2	32	28
	University Physics (2)	L	3	3	48	42
	University Physics Experiments (2)	L&P	1	1	16	14
Engineering Fundamentals	Graphing of Engineering	L	1.5	1.5	24	21
	CAD Technological base	L&P	1.5	1.5	24	21
	Theoretical mechanics	L	2	2	32	28
	Mechanics of materials	L	3	3	48	42
	Civil engineering materials	L&P	2	2	32	28
Practical Training	"C language programming" practicum	L&P	1	2	22	28
	Practicum of engineering graphing	L&P	1	2	22	28
Foreign Language	College English (3)	L	3	3	48	42
General	Situation and Policy (3)	L	0.5	0.5	8	4.5
Quality Expansion	Physical Education (3)	L&P	1	1	36	14
Total			22.5	24.5	392	340.5

Plan-Fourth semester

Course Cluster		Name	Type	Chinese CP	ECTS CP	Workload	
						Contact Hours	Self-Study Hours
Mathematics and Natural Sciences		Operations Research B	L	2	2	32	28
Engineering Fundamentals		Engineering Survey A	L&P	2	2	32	28
		Structural Mechanics (1)	L	3.5	3.5	56	49
Engineering Applications	Architectural engineering	Building Architecture	L	3	3	48	42
	Road and bridge engineering	Road survey and design	L	3	3	48	42
	Geotechnical and urban underground engineering	Rock mechanics	L	2	2	32	28
Practical Training	All major	Engineering measuring practice	L&P	2	4	44	56
	Architectural engineering	Practicum of Building Architecture	L&P	3	6	66	84
	Road and bridge engineering	Practicum of road survey	L&P	2	4	44	56
Foreign Language		College English (4)	L	3	3	48	42
General		Outline of Chinese Modern History	L	2.5	2.5	40	22.5
		Situation and Policy (4)	L	0.5	0.5	8	4.5
Quality Expansion		Physical Education (4)	L&P	1	1	36	14
Total				22.5	27.5	410	370

Plan-Fifth semester

Course Cluster		Name	Type	Chinese CP	ECTS CP	Workload	
						Contact Hours	Self-Study Hours
Engineering Fundamentals		Structural Mechanics (2)	L	1.5	1.5	24	21
		Engineering geology	L&P	1.5	1.5	24	21
		Design principle of concrete structure	L&P	3.5	3.5	56	49
		Soil mechanics and foundation	L&P	3	3	48	42
		Design principle of steel structure	L	2	2	32	28
Engineering Applications	Architectural engineering	Design of steel structure	L	2.5	2.5	40	35
	Road and bridge engineering	Roadbed and pavement engineering	L	3	3	48	42
	Geotechnical and urban underground engineering	Geotechnical investigation and testing	L	2	2	32	28
Practical Training	Architectural engineering	Foundation engineering practicum A	L&P	1	2	22	28
		Steel structure practicum	L&P	2	4	44	56
	Road and bridge engineering	Concrete practicum A	L&P	2	4	44	56
		Roadbed and pavement practicum	L&P	2	4	44	56
		Foundation engineering practicum A	L&P	1	2	22	28
	Geotechnical and urban underground engineering	Concrete practicum B	L&P	1	2	22	28
		Geotechnical investigation and testing practicum	L&P	1	2	22	28
		Foundation engineering course design B	L&P	2	4	44	56
General		Comprehensive Practice in Ethics and Moral Cultivation	L&P	3	3	48	27
Quality Expansion		Introduction toXi Thought on socialism with Chinese characteristics in the new era	L	2	2	36	14
		Career Development and Guidance for College Students (1)	L&P	1	1	16	14
Total				23	26	390	335

Plan-Sixth semester

Course Cluster		Name	Type	Chinese CP	ECTS CP	Workload	
						Contact Hours	Self-Study Hours
Engineering Fundamentals		Construction technology and organization of civil engineering	L	3	3	48	42
Engineering Applications	Architectural engineering	Concrete and masonry structure design	L	3.5	3.5	56	49
	Road and bridge engineering	Hydrology for bridge and culvert	L	1.5	1.5	24	21
		Bridge Engineering (1)	L	2.5	2.5	40	35
	Geotechnical and urban underground engineering	Underground structures	L	3	3	48	42
		Slope engineering and foundation treatment	L	2.5	2.5	40	35
Practical Training	All major	Construction organization practicum	L&P	1	2	22	28
		Corporate Professional Practice (1)	P	4	8	88	112
	Architectural engineering	Practicum of concrete and masonry structure	L&P	3	6	66	84
	Geotechnical and urban underground engineering	Practicum of underground building structure	L&P	2	4	44	56
		Practicum of slope and foundation treatment	L&P	1	2	22	28
	Quality Expansion	Cultural Quality Education (Public Art)		L	2	2	32
Career Development and Guidance for College Students (2)		L&P	1	1	16	14	
Innovation and Entrepreneurship Education (1)		L&P	1	1	16	14	
Total				18.5	26.5	344	361

Plan-Seventh semester

Course Cluster		Name	Type	Chinese CP	ECTS CP	Workload	
						Contact Hours	Self-Study Hours
Engineering Applications	Architectural engineering	Seismic Design of Building	L	1.5	1.5	24	21
		High-rise buildings	L	2	2	32	28
		Estimated budget for construction projects	L	2	2	32	28
	Road and bridge engineering	Bridge Engineering (2)	L	2.5	2.5	40	35
		Highway project budget estimate	L	2	2	32	28
	Geotechnical and urban underground engineering	Subway and tunnel engineering	L	3	3	48	42
		Estimates for underground engineering	L	2	2	32	28
	Major electives			4.5	4.5	72	40.5
Practical Training	All major	Comprehensive Practice in Ethics and Moral Cultivation	L&P	1	2	22	28
		Corporate Professional Practice (2)	P	4	8	88	112
	Architectural engineering	Construction engineering budget practicum	L&P	1	2	22	28
	Road and bridge engineering	Bridge engineering practicum	L&P	2	4	44	56
		Highway engineering budget practicum	L&P	1	2	22	28
	Geotechnical and urban underground engineering	Subway and tunnel engineering practicum	L&P	2	4	44	56
		Underground engineering budget practicum	L&P	1	2	22	28
	General	Basic principle of Marxism		L	3	3	48
Introduction to MAO Zedong Thought and the theoretical system of socialism with Chinese characteristics		L	2	2	32	18	
Quality Expansion		Innovation and Entrepreneurship Education (2)	L&P	1	1	16	14
Total				22	28	388	344.5

Plan-Eighth semester

Course Cluster	Name	Type	Chinese CP	ECTS CP	Workload	
					Contact Hours	Self-Study Hours
Bachelor Thesis	Bachelor Thesis	L&P	15	30	160	590





