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学 位 课	公共必修课	First Foreign Language	2	72	2		
		Theory and Practice of Socialism with Chinese Characteristics	2	36	1		
		Dialectics of Nature	1	18	1		
		Numerical Analysis	3	54	1		
		Mathematical Statistics	3	54	1		
			Continuum Mechanics	2	36	1	
	研究方向必修课		Mechanical Behavior of Materials	2	36	1	
			Mesomechanics	2	36	2	
			Damage Mechanics	2	36	1	
			Nonlinear FEM	2	36	2	
			Advanced Fracture Mechanics	2	36	2	
			Advanced Composite Mechanics	2	36	2	
			Advanced Rock Mechanics	2	36	2	
		Programming for Structural Analysis	2	36	1		
		Nonlinear Vibration	2	36	2		
		Random Vibration	2	36	2		
		Identification Theory of Modes	2	36	2		
		Optimization Theory for Engineering Structures	2	36	2		
		Elasticity and Plasticity					
		Finite Element Method					
		Dynamics of Structures					

学位课	公共必修课	First Foreign Language	2	72	2		
		Theory and Practice of Socialism with Chinese Characteristics	2	36	1		
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		Numerical Analysis	3	54	1		
		Mathematical Statistics	3	54	1		
			Continuum Mechanics	2	36	1	
	研究方向必修课		Nonlinear Vibration	2	36	2	
			Random Vibration	2	36	2	
			Optimization theory for Engineering Structures	2	36	2	
			Nonlinear FEM	2	36	2	
			Identification Theory of Modes	2	36	2	
	选修课		Advanced Fracture Mechanics	2	36	2	
			Advanced Composite Mechanics	2	36	2	
			Programming for Structural Analysis	2	36	1	
			Mechanical Behavior of Materials	2	36	1	
		Mesomechanics	2	36	2		
		Damage Mechanics	2	36	1		
		Advanced Rock Mechanics	2	36	2		
		Dynamic Test and Examine for Structure	2	36	2		
		Elasticity and Plasticity					
		Finite Element Method					
		Dynamics of Structures					

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		Numerical Analysis	3	54	1		
		Mathematical Statistics	3	54	1		
		Elasticity and Plasticity	3	54	1		
	研究方向必修课		Finite Element Method	3	54	1	
			Advanced Soil Mechanics	2	36	2	
			Rock mechanics	2	36	2	
			Testing and Detecting of Geotechnical Engineering	2	36	2	
		Matrix Theory	3	54	1		
		Geoenvironmental Engineering	2	36	2		
		Constitutive Law of Soils	1	36	2		
		Geosynthetics	2	36	2		
		Theory of Pile Foundation	2	36	2		
		Slope Seepage and Stability Analysis	3	54	2		
		Theory of Landslide	2	36	2		
		Rheological Mechanics for Rock & Soil	2	36	2		
		Intelligent Rock Mechanics	2	36	2		
		Permeability Property of Fissure Medium	2	36	2		

		Stability Analysis of Surrounding Rocks in Underground Engineering	2	36	2	
		Control to Stability of Undergroud Engineering	2	36	2	
		Monitoring and Analysis in Underground Engineering	2	36	2	
		Soil Mechanics				
		Foundation Engineering				

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		Mathematical Statistics	3	54	1		
			Elasticity and Plasticity	3	54	1	
	研究方向必修课		Finite Element Method	3	54	1	
			Advanced Theory of Steel Structure	2	36	1	
			Stability Theory of Structures	2	36	1	
			Advanced Reinforced Theory of Concrete Structure	2	36	1	
			Seismic Resistance of Engineering Structure	2	36	1	
			Structure Reliability	2	36	1	
	选修课		Matrix theory	3	54	1	
		The Nonlinear Finite Element Method	2	36	2		
		Dynamics of Structures	2	36	2		
		FEM Software for General Purpose and Its Applications	2	36	2		
		Long Span Steel Structure	2	36	2		
		Design of Tall Building Structure	2	36	2		
		Design Principle for Composite Structures of Steel and Concrete	2	36	2		
		Modern Concrete New Theory&Technology	2	36	2		

		Program Design for Reinforced Concrete Structures Analysis	2	36	2	
		Design for Durability of Concrete Structure	2	36	2	
		Reinforcement Theory and Its Application for Engineering Structures	2	36	2	
		The Testing and Measuring Structural Engineering	2	36	2	
		Modern Prestressed Concrete Structure	2	36	1	
补修课		Basic Principle of Concrete Structure				
		Principle of Steel Structure				

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		Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
	专业必修课	Fluid Mechanics	3	54	1	
	研究方向必修课	Fuzzy Mathematics	2	36	1	
		Practice & Equation of Mathematical Physics	3	54	2	
		The Principle of Water Quality Control	3	54	2	
		Lectures of New Technology of Water and Drainage Engineering	2	36	2	
		Matrix Theory	3	54	1	
		The Principle and Application of Fire Protection Engineering	2	36	2	
		Analyses and Control of the Unsteady Flow in Pipe Net	2	36	2	
		Water Quality Analysis & Application of Instruments	2	36	2	
Microbial Ecology of Water Quality Control		2	36	2		
Simulation & Control of Water Supply and Drainage Technology		2	36	2		
The Optimization Theory and Design of Water Distribution and Drainage System		2	36	2		
	Water Quality Engineering					
	Water Quality Engineering					

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			Numerical Analysis	3	54	1
			Mathematical Statistics	3	54	1
			Catastrophism	2	36	1
		Seismic Resistance of Engineering				

研究方向必修课

		Nonlinear Vibration	2	36	2	
		The Optimization Theory and Design of Water Distribution Drainage System	2	36	2	
		Basic Principle of Concrete Structure				
		Principle of Steel Structure				

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		Numerical Analysis	3	54	1	
		Mathematical Statistics	3	54	1	
	学科通开课	Elasticity and Plasticity	3	54	1	
	研究方向必修课	Finite Element Method	3	54	1	
		Bridge Stability and Dynamics	2	36	2	
		Higher Theory of Bridge Structure	2	36	2	
		Stability Analysis of Surrounding Rocks in Underground Engineering	2	36	2	
		Tunnel Engineering	2	36	2	
	选 修 课	Matrix Theory	3	54	1	
		Seismic Design of Bridge Structure	2	36	2	
		Reliability Theory of Bridge Structure	2	36	2	
Security Control and Health Assessment of Bridges		2	36	2		
Risk Theory and Application of Bridge Engineering		2	36	2		
Design Theory and Application of Modern Bridges		2	36	2		
Rock Mechanics		2	36	2		
Rheological Mechanics for Rock & Soil		2	36	2		
Control to Stability of Underground Engineering		2	36	2		

		Monitoring and Analysis in Underground Engineering	2	36	2	
	I	Bridges Structure I				
		Roch Mechanics and Engineering				

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		Matrix Theory	3	54	1		
		Mathematical Statistics	3	54	1		
	专业必修课	Engineering Economics	2	36	2		
		研究方向必修课	Modern Construction Technology	2	36	2	
			Modern Enterprise Management	2	36	1	
	Operational Research		3	54	1		
	选修课	Real Estate Investment Analysis and Decision-making	2	36	2		
Project Risk Management		2	36	2			
Real Estate Appraisal		2	36	2			
International Project Management		2	36	1			
The Management of Investment		2	36	2			
	Civil Engineering Construction						
	Reinforced Concrete Structure						

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		Theory and Practice of Socialism with Chinese Characteristics	2	36	1	
		Dialectics of Nature	1	18	1	
	学科通开课	Modern Environmental Science	2	36	1	
		Modern Environmental Biotechnology	2	36	2	
		Modern Environmental Management	2	36	2	
		Pollution Prevention and Environmental Remediation	2	36	2	
		Eco-materials	2	36	2	
		Advanced Environmental Engineering	2	36	1	
	研究方向必修课	Environmental System Modeling and Realization	2	36	2	
		Principles of Environmental Engineering	2	36	2	
		The Principle of Water Quality Control	3	54	2	
		Lectures of New Technology of Water and Drainage Engineering	2	36	2	
	Modern Environmental Instrument Analysis Experiment	2	36	2		
	Matrix Theory	3	54	1		
	Biology of Water Quality Control	2	36	1		
	Computer Simulation and Control of Water Engineering	2	36	1		

		Water Supply Engineering				