Department of Civil and Construction Engineering Chaoyang University of Technology Graduate Course Requirement (for the students of day division admitted in the 2024 academic year)

Code	Core courses	Credit
02023	Seminar (I)	2
02028	Seminar (II)	2
	Total:	4
Code	Elective courses	Credit
09105	Structural Design (II)	3
08369	MEP Design and Collaboration	3
09099	Structural analysis(II)	
09103		3
09101	Geotechnical Engineering(II)	3
08971	Case Study on BIM Implementation	3
08490	Specific topics on hillside engineering, soil and water conservation	3
08972	Construction procurement	3
02130	Master Thesis	3
01997	Project Management	3
08727	Applications of Artificial Intelligence and Deep Learning in Construction Er	3
07321	Deep Excavation Engineering and Foundation	3
08159	Practical Topics on Construction and Public Safety for Civil Engineering P	2
09102	Specific topics on construction method	3
08158	Practical Topics on Construction and Public Safety for Civil Engineering P	1
08489	Special Topics in Engineering Geology and Site Investigation	3
02130	Master Thesis	3
07891	Practice of Building and Public Safety Inspection	3
07312	Building Information Modeling	3
09098	Structural analysis (I)	3
09100	Geotechnical Engineering(I)	3
09104	Structural Design (I)	3
02420	Structural Matrix Analysis	3
00857	Finite Element Method	3
00800	Earthquake Engineering	3
02422	Structural Dynamics	3
02869	Introduction to Experimental Methods	3
00985	Cold-form Steel Design	3
01445	Earthquake Resistant Design	3
02073	Special Topics:Advanced Concrete Technology (I)	2
03232	Special Topics:Steel Structure(I)	2
01614	Special Topics:Vibrations and Wave Propagation(I)	2
04244	Special Topics: Structure and Material Safety Assessment (I)	2
02074	Special Topics:Advanced Concrete Technology(II)	2

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Department of Civil and Construction Engineering Chaoyang University of Technology Graduate Course Requirement (for the students of day division admitted in the 2024 academic year)

03233 Special Topics: Steel Structure(II) 2 01615 Special Topics: Vibrations and Wave Propagation(II) 2 04245 Special Topics: Structure and Material Safety Assessment (III) 2 04331 Special Topics: Steel Structure(III) 2 04328 Special Topics: Vibrations and Wave Propagation(III) 2 04329 Special Topics: Structure and Material Safety Assessment(III) 2 04330 Special Topics: Structure and Material Safety Assessment(III) 2 04338 Special Topics: Structure and Material Safety Assessment(IV) 2 04340 Special Topics: Structure and Material Safety Assessment(IV) 2 04340 Special Topics: Structure and Material Safety Assessment(IV) 2 04340 Special Topics: Structure and Material Safety Assessment(IV) 2 04340 Special Topics: Structure and Material Safety Assessment(IV) 2 01787 Advanced Reinforced Concrete 3 01044 Soli Dynamics 3 01045 Rock Mechanics 3 00714 Soli Dynamics 3 04018 Sepage in	Code	Elective courses	Credit
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01988Project Management and Control303329Research Methods for Construction Management Thesis303762Settlement of Engineering Dispute in Practice303324Construction Management Information System301008Decision Making and Risk Management3	04342	Special Topics: Slope Hazard Mitigation Technology(IV)	2
03329Research Methods for Construction Management Thesis303762Settlement of Engineering Dispute in Practice303324Construction Management Information System301008Decision Making and Risk Management3	04343	Special Topics: Soil and Foundation Dynamics (IV)	2
03762Settlement of Engineering Dispute in Practice303324Construction Management Information System301008Decision Making and Risk Management3	01988	Project Management and Control	3
03324 Construction Management Information System 3 01008 Decision Making and Risk Management 3	03329	Research Methods for Construction Management Thesis	3
01008 Decision Making and Risk Management 3	03762	Settlement of Engineering Dispute in Practice	3
3	03324	Construction Management Information System	3
03314 Special Topics:System Analysis Method(I) 2	01008	Decision Making and Risk Management	3
	03314	Special Topics:System Analysis Method(I)	2

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Department of Civil and Construction Engineering Chaoyang University of Technology Graduate Course Requirement (for the students of day division admitted in the 2024 academic year)

Code	Elective courses	Credit
03327	Special Topics: Computer Technology (I)	2
04325	Special Topics: System Analysis Method(II)	2
03328	Special Topics: Computer Technology(II)	2
04335	Special Topics: System Analysis Method(III)	2
04336	Special Topics: Computer Technology (III)	2
04345	Special Topics: System Analysis Method(IV)	2
04346	Special Topics: Computer Technology (IV)	2
03929	Satellite Image Analysis	3
01433	Writing of Science and Technology Reports	2
02077	Concrete Retrofitting and Strengthening	3
00126	Geotechnical Earthquake Engineering	3
04351	Special Topics on Engineering Contracts	3
01923	Worldwide Development of Current Construction Technology	3
	Tot	al: 215

University Requirements	
Core courses	2 courses 4 credits
Elective courses	Minimum elective 22 credits
Total requirement	32credits

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