

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)

<b>Code</b>	<b>Core courses</b>	<b>Credit</b>
02023	Seminar (I)	2
02028	Seminar (II)	2
<b>Total:</b>		<b>4</b>
<b>Code</b>	<b>Elective courses</b>	<b>Credit</b>
09105	Structural Design (II)	3
08369	MEP Design and Collaboration	3
09099	Structural analysis(II)	3
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 En	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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03233	Special Topics: Steel Structure(II)	2
01615	Special Topics: Vibrations and Wave Propagation(II)	2
04245	Special Topics: Structure and Material Safety Assessment (II)	2
04331	Special Topics: Steel Structure(III)	2
04328	Special Topics: Advanced Concrete Technology (III)	2
04330	Special Topics: Vibrations and Wave Propagation(III)	2
04329	Special Topics: Structure and Material Safety Assessment(III)	2
04338	Special Topics: Advanced Concrete Technology (IV)	2
04341	Special Topics: Steel Structure(IV)	2
04340	Special Topics: Vibrations and Wave Propagation(IV)	2
04339	Special Topics: Structure and Material Safety Assessment(IV)	2
01787	Advanced Reinforced Concrete	3
01242	Application of Nondestructive Testing Evaluation to Construction Engineering	3
01054	Rock Mechanics	3
00114	Soil Dynamics	3
00799	Ground Improvement	3
04018	Seepage in Soil and Groundwater	3
01805	Advanced Prestressed Concrete	3
03482	Slope Stability and Ground Anchors in Engineering	3
03118	Application of Numerical Method in Geotechnical Engineering	3
00791	Special Topics on Excavation Technology (I)	2
00121	Special Topics:Soil and Foundation Dynamics (I)	2
04316	Special Topics: Slope Hazard Mitigation Technology(I)	2
00792	Speical Topics on Excavation (II)	2
04326	Special Topics: Slope Hazard Mitigation Technology(II)	2
00122	Special Topics: Soil and Foundation Dynamics(II)	2
04334	Special Topics on Excavation Technology (III)	2
04332	Special Topics: Slope Hazard Mitigation Technology(III)	2
04333	Special Topics: Soil and Foundation Dynamics (III)	2
04344	Special Topics on Excavation Technology (IV)	2
04342	Special Topics: Slope Hazard Mitigation Technology(IV)	2
04343	Special Topics: Soil and Foundation Dynamics (IV)	2
01988	Project Management and Control	3
03329	Research Methods for Construction Management Thesis	3
03762	Settlement of Engineering Dispute in Practice	3
03324	Construction Management Information System	3
01008	Decision Making and Risk Management	3
03314	Special Topics:System Analysis Method(I)	2

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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
<b>Total:</b>		<b>215</b>

<b>University Requirements</b>	
<b>Core courses</b>	<b>2 courses 4 credits</b>
<b>Elective courses</b>	<b>Minimum elective 22 credits</b>
<b>Total requirement</b>	<b>32credits</b>