

Department of Environmental Engineering and Management
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2019 academic year)

Code	Core courses	Credit
00170	Engineering Mathematics	3
08684	Programming logics and computation	3
02519	Calculus	3
02579	Economics	3
03346	Environmental Chemistry	3
03343	Introduction to Environmental Engineering	3
03416	Introduction to Environmental Management	3
07463	Pollution Monitoring and Analysis	2
07464	Pollution Monitoring and Analysis Laboratory	1
02144	Statistics	3
01176	Air Pollution	3
01175	Air Pollution Experiments	1
03335	Environmental Laws	3
07466	Wastewater Engineering Laboratory	1
07467	Solid Waste Treatment	3
03421	Environment Impact Evaluation	3
03407	Environmental Management System	3
00404	Hydrology	3
01971	Fundamental Mathematics	2
06975	Graduation Project	3
06963	Graduation Project and Service-Learning	3
03583	Wastewater Engineering	3
Total:		58
Code	Elective courses	Credit
08598	Green Technology and Low-Carbon Management	3
08576	App Programming and Application	3
08577	Industrial Safety	3
08725	Factory Electrical and Mechanical Services	3
03562	Industrial Hygiene	3
09092	Wastewater Treatment Fieldwork	3
05851	Special Topics: Enterprise Program (4)	1
05852	Special Topics: Enterprise Program (5)	1
05850	Special Topics: Enterprise Program (3)	1
05849	Special Topics: Enterprise Program (2)	1
05686	Special Topics: Enterprise Program (1)	1
05853	Special Topics: Enterprise Program (6)	1
03367	Environmental Physics	2
03373	Environmental Science	3

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Code	Elective courses	Credit
03354	Environmental Ecology	3
03391	Environmental Microbiology	3
02740	Computers in Environmental Engineering	3
00445	Survey of Environment Problem in Taiwan	2
05690	Soil and Groundwater Contamination Survey and Remediation	3
00172	Engineering Mathematics(II)	3
02436	Water Supply Engineering	3
00199	Manufacturing Process	3
01410	Fluid Mechanics	3
03379	Environmental Statistics	3
03345	Analytical Chemistry of Environment	3
03428	Environmental Hygiene	3
00795	Geographic Information Systems	3
03371	Management for Environmental Policy	3
02658	Resource Recycling and Recovery	3
03009	Intrumental Analysis	3
01174	Air pollution control and design	3
00858	Treatment and Design for Hazardous Waste	3
06700	Greenhouse Gas Accounting and Carbon Reduction	3
02917	Green Enterprise	3
00405	Water Regeneration Technology	3
03427	Environmental Auditing and Practice	3
03375	English for Environmental Engineers	3
03437	Review on Environmental Topics	3
05227	Engineering Ethics	1
06210	Introduction to Energy	3
06124	Enterprise Seminar II - Biochemical Science and Technology	1
06515	Noise and Vibration	3
06514	Environmental risk assessment	3
06516	Industrial and Environmental Toxicology	3
07354	Principles and Applications of Electrical Engineering	3
06395	Green Materials	3
03682	Environmental Education	2
07746	Teaching materials and methods of environmental education	2
00164	Engineering Graphics	2
04815	Energy and the Environment	3
08040	Management and Practice of Occupational Safety and Health	3
08084	Design and Practice of Soil and Groundwater Contamination Engineering	3

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Code	Elective courses	Credit
08214	Practice of Environmental Engineering and Management	4
05966	Industry Internship	9
07822	Introduction to Environmental Ethics	2
Total:		150
University Requirements		11 courses 30 credits
Core courses		22 courses 58 credits
Elective courses		Minimum elective 31 credits
Total requirement		128credits