

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2022 academic year)

Code	Core courses	Credit
07738	Practical Project Management	3
07727	General Chemistry Laboratory	2
09171	Integrated Practice of Applied Chemistry	2
04706	Technical English Reading	2
07881	Practice of Food Chemistry	3
00603	Biochemistry	3
02324	General Biology	3
02519	Calculus	3
07061	Organic Chemistry Laboratory	2
02377	Inorganic Chemistry	3
03781	Mathematics for Chemist (II)	2
01094	Physical Chemistry	3
01624	Seminar	2
08684	Programming logics and computation	3
00356	Mathematics for Chemist(I)	2
02319	General Chemistry (I)	3
02320	General Chemistry (II)	3
01971	Fundamental Mathematics	2
00320	Analytical Chemistry (I)	3
00862	Organic Chemistry(I)	3
00321	Analytical Chemistry(II)	3
00863	Organic Chemistry(II)	3
05924	Analytical Chemistry Laboratory	2
03010	Instrumental Analysis(I)	3
02008	Selected Topics(1)	2
02011	Selected Topics(2)	2
03011	Instrumental Analysis(II)	3
04897	Physical Chemistry Laboratory	2
05926	Biochemistry Laboratory	2
05948	Instrumental Analysis Laboratory	2
Total:		76
Code	Elective courses	Credit
08577	Industrial Safety	3
08322	Cosmetics Manufacture	3
10064	Chemical Technique and Sustainability	2
08079	Interfacial Chemistry and Formulation Development Practices	3
08073	Elementary Practice in Chemical Engineering	2
07984	Practice of Crop Production	3

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Code	Elective courses	Credit
03562	Industrial Hygiene	3
07882	Material Chemistry and Practices	3
07740	The Extraordinary Chemistry of Ordinary Things	2
03299	Applied Microbiology	3
07739		2
07733	Practice of Health Agriculture	3
10065		3
09619	Introduction to Statistics	3
06395	Green Materials	3
01420	Technical English	2
05853	Special Topics: Enterprise Program (6)	1
05852	Special Topics: Enterprise Program (5)	1
10066		2
05851	Special Topics: Enterprise Program (4)	1
05850	Special Topics: Enterprise Program (3)	1
10063	Soil Management and Environmental Sustainability	2
10062	Practice of General Chemistry (II): Stoichiometry Training	1
07884	Practice of Organic Spectroscopy	3
05849	Special Topics: Enterprise Program (2)	1
05686	Special Topics: Enterprise Program (1)	1
09223	Practice of Organic Spectroscopy: Structure Elucidation Training	1
08320	Management of Industrial Safety and Hygiene	2
08744	Practice of Food Safety	3
08576	App Programming and Application	3
08643	Introduction to Food and Drug Industry	3
08598	Green Technology and Low-Carbon Management	3
09488	APP Basic Programming	3
07485	Basic Practice in Chemical Engineering	2
06124	Enterprise Seminar II - Biochemical Science and Technology	1
08900	Practice of Applied Chemistry	2
01004	Introduction of Materials	3
01971	Fundamental Mathematics	2
02492	Introduction of Quantum Chemistry	3
00610	Introduction of Biotechnology	3
00873	Organic Reaction Mechanisms	3
03727	Polymer Material	3
03484	Fermentational Biotechnology	3
04394	Cosmetic	3

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Code	Elective courses	Credit
01653	Specialty Chemicals	3
05227	Engineering Ethics	2
Total:		108

University Requirements	9 courses 28 credits
Core courses	30 courses 26 credits
Elective courses	Minimum elective 28 credits
Total requirement	134credits