

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2023 academic year)

Code	Core courses	Credit
04706	Technical English Reading	2
02324	General Biology	3
08684	Programming logics and computation	3
07061	Organic Chemistry Laboratory	2
03781	Mathematics for Chemist (II)	2
07727	General Chemistry Laboratory	2
00356	Mathematics for Chemist(I)	2
01094	Physical Chemistry	3
07738	Practical Project Management	3
02377	Inorganic Chemistry	3
09171	Integrated Practice of Applied Chemistry	2
02519	Calculus	3
00603	Biochemistry	3
01624	Seminar	2
07881	Practice of Food Chemistry	3
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
05851	Special Topics: Enterprise Program (4)	1
03562	Industrial Hygiene	3
10064	Chemical Technique and Sustainability	2
07984	Practice of Crop Production	3
06395	Green Materials	3
09223	Practice of Organic Spectroscopy: Structure Elucidation Training	1

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08643	Introduction to Food and Drug Industry	3
08598	Green Technology and Low-Carbon Management	3
07884	Practice of Organic Spectroscopy	3
01420	Technical English	2
07740	The Extraordinary Chemistry of Ordinary Things	2
08322	Cosmetics Manufacture	3
03299	Applied Microbiology	3
05853	Special Topics: Enterprise Program (6)	1
05850	Special Topics: Enterprise Program (3)	1
10502	Engineering Control of Workplace	2
07733	Practice of Health Agriculture	3
07739		2
10368		2
08577	Industrial Safety	3
10370	Introduction to Occupational Medicine	2
05686	Special Topics: Enterprise Program (1)	1
10063	Soil Management and Environmental Sustainability	2
09488	APP Basic Programming	3
10366	Micro-Project of Applied Chemistry	1
10062	Practice of General Chemistry (II): Stoichiometry Training	1
08320	Management of Industrial Safety and Hygiene	2
08079	Interfacial Chemistry and Formulation Development Practices	3
07882	Material Chemistry and Practices	3
05849	Special Topics: Enterprise Program (2)	1
09619	Introduction to Statistics	3
10066		2
10065		3
08744	Practice of Food Safety	3
08576	App Programming and Application	3
08073	Elementary Practice in Chemical Engineering	2
05852	Special Topics: Enterprise Program (5)	1
08900	Practice of Applied Chemistry	2
06124	Enterprise Seminar II - Biochemical Science and Technology	1
07485	Basic Practice in Chemical Engineering	2
01004	Introduction of Materials	3
01971	Fundamental Mathematics	2
02492	Introduction of Quantum Chemistry	3
00610	Introduction of Biotechnology	3

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Code	Elective courses	Credit
00873	Organic Reaction Mechanisms	3
03727	Polymer Material	3
03484	Fermentational Biotechnology	3
04394	Cosmetic	3
01653	Specialty Chemicals	3
05227	Engineering Ethics	2
Total:		115

University Requirements	9 courses 28 credits
Core courses	30 courses 68 credits
Elective courses	Minimum elective 28 credits
Total requirement	134credits