

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2024 academic year)

Code	Core courses	Credit
07061	Organic Chemistry Laboratory	2
07727	General Chemistry Laboratory	2
01094	Physical Chemistry	3
01624	Seminar	2
09171	Integrated Practice of Applied Chemistry	2
08684	Programming logics and computation	3
02519	Calculus	3
02377	Inorganic Chemistry	3
07738	Practical Project Management	2
00603	Biochemistry	3
04706	Technical English Reading	2
02324	General Biology	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:		68
Code	Elective courses	Credit
08079	Interfacial Chemistry and Formulation Development Practices	3
05849	Special Topics: Enterprise Program (2)	1
10370	Introduction to Occupational Medicine	2
08744	Practice of Food Safety	3
03299	Applied Microbiology	3
10063	Soil Management and Environmental Sustainability	2
06395	Green Materials	3
10062	Practice of General Chemistry (II): Stoichiometry Training	1
03562	Industrial Hygiene	3

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10675	Prevention of Organic Solvents and Some Particular Chemicals Hazards	3
10064	Chemical Technique and Sustainability	2
09488	APP Basic Programming	3
07740	The Extraordinary Chemistry of Ordinary Things	2
07984	Practice of Crop Production	3
08577	Industrial Safety	3
07884	Practice of Organic Spectroscopy	3
07733	Practice of Health Agriculture	3
05686	Special Topics: Enterprise Program (1)	1
09223	Practice of Organic Spectroscopy: Structure Elucidation Training	1
05850	Special Topics: Enterprise Program (3)	1
01420	Technical English	2
10677	Organic Operations Management Practices	3
08129	Occupational Safety and Health Act	3
10676	Special Topic in Hazardous Material	3
05853	Special Topics: Enterprise Program (6)	1
08643	Introduction to Food and Drug Industry	3
05851	Special Topics: Enterprise Program (4)	1
07882	Material Chemistry and Practices	3
08322	Cosmetics Manufacture	3
08320	Management of Industrial Safety and Hygiene	2
07881	Practice of Food Chemistry	3
08598	Green Technology and Low-Carbon Management	3
05852	Special Topics: Enterprise Program (5)	1
06513	Application and Practice of Pheromone	3
08900	Practice of Applied Chemistry	2
06124	Enterprise Seminar II - Biochemical Science and Technology	1
01004	Introduction of Materials	3
01971	Fundamental Mathematics	2
02492	Introduction of Quantum Chemistry	3
00610	Introduction of Biotechnology	3
03727	Polymer Material	3
03484	Fermentational Biotechnology	3
04394	Cosmetic	3
01653	Specialty Chemicals	3
05933	Electrical and Optical Properties of Material	3

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Code	Elective courses	Credit
05227	Engineering Ethics	2
Total:		111
University Requirements		9 courses 28 credits
Core courses		27 courses 68 credits
Elective courses		Minimum elective 28 credits
Total requirement		134credits