

Department of Applied Chemistry
Chaoyang University of Technology Graduate Course Requirement
(for the four year students of day division admitted in the 2021 academic year)

Code	Core courses	Credit
09171	Integrated Practice of Applied Chemistry	2
07738	Practical Project Management	3
07061	Organic Chemistry Laboratory	2
07727	General Chemistry Laboratory	2
08684	Programming logics and computation	3
07734	Chemical Analysis and Testing of Market Products	3
03781	Mathematics for Chemist (II)	2
02519	Calculus	3
03009	Intrumental Analysis	3
00603	Biochemistry	3
02377	Inorganic Chemistry	3
02324	General Biology	3
07881	Practice of Food Chemistry	3
04706	Technical English Reading	2
01094	Physical Chemistry	3
00356	Mathematics for Chemist(I)	2
07062	Service-Learning in Applied Chemistry	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
02008	Selected Topics(1)	2
02011	Selected Topics(2)	2
04897	Physical Chemistry Laboratory	2
05926	Biochemistry Laboratory	2
05948	Instrumental Analysis Laboratory	2
Total:		76
Code	Elective courses	Credit
05686	Special Topics: Enterprise Program (1)	1
08129	Occupational Safety and Health Act	3
08080	Analysis and Application of Food and Drug	3
08073	Elementary Practice in Chemical Engineering	2
07984	Practice of Crop Production	3
07884	Practice of Organic Spectroscopy	3

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Code	Elective courses	Credit
07882	Material Chemistry and Practices	3
07740	The Extraordinary Chemistry of Ordinary Things	2
07739		2
07737	Evaluation of Technology Industry	3
03562	Industrial Hygiene	3
07733	Practice of Health Agriculture	3
03299	Applied Microbiology	3
07064	Introduction to the science of sustainable environment	2
08598	Green Technology and Low-Carbon Management	3
06395	Green Materials	3
01420	Technical English	2
08643	Introduction to Food and Drug Industry	3
09619	Introduction to Statistics	3
09488	APP Basic Programming	3
09223	Practice of Organic Spectroscopy: Structure Elucidation Training	1
05853	Special Topics: Enterprise Program (6)	1
05852	Special Topics: Enterprise Program (5)	1
08744	Practice of Food Safety	3
05851	Special Topics: Enterprise Program (4)	1
05850	Special Topics: Enterprise Program (3)	1
08577	Industrial Safety	3
08079	Interfacial Chemistry and Formulation Development Practices	3
08576	App Programming and Application	3
05849	Special Topics: Enterprise Program (2)	1
08320	Management of Industrial Safety and Hygiene	2
08322	Cosmetics Manufacture	3
07485	Basic Practice in Chemical Engineering	2
06513	Application and Practice of Pheromone	3
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 Quantom Chemistry	3
00610	Introduction of Biotechnology	3
03484	Fermentational Biotechnology	3
04394	Cosmetic	3
01653	Specialty Chemicals	3

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Code	Elective courses	Credit
05227	Engineering Ethics	2
Total:		106

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