

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2020 academic year)

Code	Core courses	Credit
02324	General Biology	3
08684	Programming logics and computation	3
07727	General Chemistry Laboratory	2
07738	Practical Project Management	3
02519	Calculus	3
07062	Service-Learning in Applied Chemistry	2
07061	Organic Chemistry Laboratory	2
02377	Inorganic Chemistry	3
07734	Chemical Analysis and Testing of Market Products	3
03009	Intrumental Analysis	3
01289	Quality Control	2
09171	Integrated Practice of Applied Chemistry	2
08320	Management of Industrial Safety and Hygiene	2
01094	Physical Chemistry	3
07881	Practice of Food Chemistry	3
00603	Biochemistry	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
02008	Selected Topics(1)	3
02011	Selected Topics(2)	3
04897	Physical Chemistry Laboratory	2
05926	Biochemistry Laboratory	2
05948	Instrumental Analysis Laboratory	2
Total:		76
Code	Elective courses	Credit
05850	Special Topics: Enterprise Program (3)	1
08322	Cosmetics Manufacture	3
05849	Special Topics: Enterprise Program (2)	1
05686	Special Topics: Enterprise Program (1)	1
08079	Interfacial Chemistry and Formulation Development Practices	3
08073	Elementary Practice in Chemical Engineering	2
07884	Practice of Organic Spectroscopy	3

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Code	Elective courses	Credit
07882	Material Chemistry and Practices	3
04706	Technical English Reading	2
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
01420	Technical English	2
09488	APP Basic Programming	3
08577	Industrial Safety	3
06395	Green Materials	3
08744	Practice of Food Safety	3
09223	Practice of Organic Spectroscopy: Structure Elucidation Training	1
05853	Special Topics: Enterprise Program (6)	1
05852	Special Topics: Enterprise Program (5)	1
07984	Practice of Crop Production	3
08643	Introduction to Food and Drug Industry	3
08598	Green Technology and Low-Carbon Management	3
08080	Analysis and Application of Food and Drug	3
08129	Occupational Safety and Health Act	3
05851	Special Topics: Enterprise Program (4)	1
08576	App Programming and Application	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
02492	Introduction of Quantum 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:		101
University Requirements		13 courses 30 credits
Core courses		29 courses 68 credits
Elective courses		Minimum elective 30 credits
Total requirement		134credits