

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2016 academic year)

Code	Core courses	Credit
07738	Practical Project Management	2
00603	Biochemistry	3
07061	Organic Chemistry Laboratory	1
02324	General Biology	3
01289	Quality Control	2
01094	Physical Chemistry	3
03009	Intrumental Analysis	3
08320	Management of Industrial Safety and Hygiene	2
07734	Chemical Analysis and Testing of Market Products	3
07727	General Chemistry Laboratory	1
02519	Calculus	3
07062	Service-Learning in Applied Chemistry	2
02377	Inorganic Chemistry	3
09171	Integrated Practice of Applied Chemistry	2
02319	General Chemistry (I)	3
01532	Introduction to Computers	3
02320	General Chemistry (II)	3
01004	Introduction of Materials	3
01971	Fundamental Mathematics	0
00320	Analytical Chemistry (I)	3
00862	Organic Chemistry(I)	3
00321	Analytical Chemistry(II)	3
00863	Organic Chemistry(II)	3
05924	Analytical Chemistry Laboratory	1
02514	Microbiology	3
02008	Selected Topics(1)	2
00610	Introduction of Biotechnology	3
02011	Selected Topics(2)	2
04897	Physical Chemistry Laboratory	1
05926	Biochemistry Laboratory	1
05948	Instrumental Analysis Laboratory	1
01635	Internship	2
	Total:	73
Code	Elective courses	Credit
07739		2
07737	Evaluation of Technology Industry	3
07736		3
03562	Industrial Hygiene	3

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Code	Elective courses	Credit
07731		3
07730	Introduction to Food and Drug Industry	3
07381	Green Production	3
07068	Plant Cell and Tissue Culture	3
07064	Introduction to the science of sustainable environment	2
08576	App Programming and Application	3
06395	Green Materials	3
06288	Creativity	2
01420	Technical English	2
08576	App Programming and Application	3
08465	The Development and Applications of Green Agricultural Resources	3
09287	Planning and Marketing of Plant Biotechnology Products	3
08598	Green Technology and Low-Carbon Management	3
08577	Industrial Safety	3
05853	Special Topics: Enterprise Program (6)	1
08321	Organic Agricultural Product Certification and Management	3
05852	Special Topics: Enterprise Program (5)	1
08322	Cosmetics Manufacture	3
05851	Special Topics: Enterprise Program (4)	1
05850	Special Topics: Enterprise Program (3)	1
07733	Practice of Health Agriculture	3
08129	Occupational Safety and Health Act	3
08080	Analysis and Application of Food and Drug	3
05849	Special Topics: Enterprise Program (2)	1
05686	Special Topics: Enterprise Program (1)	1
07985	The Practice of Plant Protection	3
07984	Practice of Crop Production	3
07884	Practice of Organic Spectroscopy	3
07882	Material Chemistry and Practices	3
07881	Practice of Food Chemistry	3
07740	The Extraordinary Chemistry of Ordinary Things	2
04706	Technical English Reading	2
08073	Elementary Practice in Chemical Engineering	2
08079	Interfacial Chemistry and Formulation Development Practices	3
07485	Basic Practice in Chemical Engineering	2
06513	Application and Practice of Pheromone	3
06124	Enterprise Seminar II - Biochemical Science and Technology	1
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Code	Elective courses	Credit
03167	Energy and Mass Balance	2
02492	Introduction of Quantum Chemistry	3
00873	Organic Reaction Mechanisms	3
02513	Applied Microbiology	3
03727	Polymer Material	3
03484	Fermentational Biotechnology	3
04394	Cosmetic	3
01653	Specialty Chemicals	3
05227	Engineering Ethics	1
Total:		126
University Requirements		12 courses 30 credits
Core courses		32 courses 63 credits
Elective courses		Minimum elective 33 credits
Total requirement		130credits