

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2015 academic year)

Code	Core courses	Credit
	Calculus	3
	Seminar	2
	Product Test Analysis of Ordinary Things	3
	Organic Chemistry Laboratory	1
	Inorganic Chemistry	3
	Practical Project Management	2
	Biochemistry	3
	Intrumental Analysis	3
	Quality Control	2
	Physical Chemistry	3
	General Biology	3
	Service-Learning in Applied Chemistry	2
	General Chemistry Laboratory	1
AC1002	General Chemistry (I)	3
AC1005	Introduction to Computers	3
AC1007	General Chemistry (II)	3
AC1015	Introduction of Materials	3
AC1018	Fundamental Mathematics	0
AC2001	Analytical Chemistry (I)	3
AC2002	Organic Chemistry(I)	3
AC2004	Analytical Chemistry(II)	3
AC2006	Organic Chemistry(II)	3
AC2019	Analytical Chemistry Laboratory	1
AC2020	Safety and Hygiene in Chemical Industries	2
AC3005	Microbiology	3
AC3023	Selected Topics(1)	2
AC3026	Introduction of Biotechnology	3
AC3038	Selected Topics(2)	2
AC3050	Physical Chemistry Laboratory	1
AC3051	Biochemistry Laboratory	1
AC3053	Instrumental Analysis Laboratory	1
AC4002	Internship	2
Total:		73
Code	Elective courses	Credit
	Special Topics: Enterprise Program (4)	1
	The Extraordinary Chemistry of Ordinary Things	2
	Special Topics: Enterprise Program (2)	1
	Elementary Practice in Chemical Engineering	2

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Code	Elective courses	Credit
	Analysis and Characterization Practice of Natural Products	3
	Synthetic Techniques and Production Practice	3
	Industrial Safety	3
		3
	Material Chemistry and Practices	3
	Practice of Food Chemistry	3
	Introduction to the science of sustainable environment	2
	Practice of Health Agriculture	3
		3
	Practice of Crop Production	3
		3
	Special Topics: Enterprise Program (3)	1
	Special Topics: Enterprise Program (1)	1
	App Programming and Application	3
	Analysis and Application of Food and Drug	3
	Green Materials	3
	Technical English Reading	2
	Special Topics: Enterprise Program (6)	1
	Green Technology and Low-Carbon Management	3
	Technical English	2
	Creativity	2
	Industrial Hygiene	3
		2
	Special Topics: Enterprise Program (5)	1
	Introduction to Food and Drug Industry	3
	Occupational Safety and Health Act	3
		2
	Interfacial Chemistry and Formulation Development Practices	3
		3
		3
		3
	App Programming and Application	3
	Green Production	3
	Enterprise Seminar II - Biochemical Science and Technology	1
	Enterprise Seminar II - Biochemical Science and Technology	1
	Application and Practice of Pheromone	3
	Basic Practice in Chemical Engineering	2
AC2010	Energy and Mass Balance	2

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Code	Elective courses	Credit
AC2014	Introduction of Quantum Chemistry	3
AC3027	Organic Reaction Mechanisms	3
AC3032	Applied Microbiology	3
AC3037	Introduction to GMO Products	3
AC3041	Fermentational Biotechnology	3
AC3044	Cosmetic	3
AC4004	Chemical Specialty	3
AC4022	Engineering Ethics	1
Total:		122

University Requirements	12 courses 30 credits
Core courses	32 courses 63 credits
Elective courses	Minimum elective 33 credits
Total requirement	130credits