

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
	Management of Industrial Safety and Hygiene	2
	Intrumental Analysis	3
	General Biology	3
	Product Test Analysis of Ordinary Things	3
	Inorganic Chemistry	3
	Physical Chemistry	3
	Organic Chemistry Laboratory	1
	Biochemistry	3
	Seminar	2
	Calculus	3
	General Chemistry Laboratory	1
	Quality Control	2
	Service-Learning in Applied Chemistry	2
	Practical Project Management	2
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
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
	Special Topics: Enterprise Program (2)	1
	Elementary Practice in Chemical Engineering	2
	Industrial Hygiene	3

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Code	Elective courses	Credit
	Industrial Safety	3
		3
	The Extraordinary Chemistry of Ordinary Things	2
	Material Chemistry and Practices	3
	Practice of Food Chemistry	3
		3
	Practice of Crop Production	3
	Introduction to the science of sustainable environment	2
	Practice of Health Agriculture	3
		3
	Creativity	2
	Green Technology and Low-Carbon Management	3
	Special Topics: Enterprise Program (3)	1
		3
	Special Topics: Enterprise Program (1)	1
	App Programming and Application	3
	Analysis and Application of Food and Drug	3
		2
	Technical English Reading	2
	Special Topics: Enterprise Program (6)	1
	Technical English	2
		3
	Introduction to Food and Drug Industry	3
	Special Topics: Enterprise Program (5)	1
	App Programming and Application	3
	Green Production	3
	Occupational Safety and Health Act	3
	Interfacial Chemistry and Formulation Development Practices	3
	Plant Cell and Tissue Culture	3
		3
		3
	Green Materials	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
AC2014	Introduction of Quantum Chemistry	3

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Code	Elective courses	Credit
AC3027	Organic Reaction Mechanisms	3
AC3032	Applied Microbiology	3
AC3039	Polymer Material	3
AC3041	Fermentational Biotechnology	3
AC3044	Cosmetic	3
AC4004	Chemical Specialty	3
AC4022	Engineering Ethics	1
Total:		120

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