

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2017 academic year)

Code	Core courses	Credit
	Physical Chemistry	3
	Inorganic Chemistry	3
	General Biology	3
	Practice of Food Chemistry	3
	Seminar	2
	Calculus	3
	Biochemistry	3
	Practice of Health Agriculture	3
	Practice of Crop Production	1
	Intrumental Analysis	3
	Practical Project Management	2
		3
	Management of Industrial Safety and Hygiene	2
	Product Test Analysis of Ordinary Things	3
	Programming logics and computation	3
	Organic Chemistry Laboratory	1
	General Chemistry Laboratory	1
	Quality Control	2
	Service-Learning in Applied Chemistry	2
AC1002	General Chemistry (I)	3
AC1007	General Chemistry (II)	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
AC3023	Selected Topics(1)	2
AC3038	Selected Topics(2)	2
AC3050	Physical Chemistry Laboratory	1
AC3051	Biochemistry Laboratory	1
AC3053	Instrumental Analysis Laboratory	1
AC4002	Internship	2
	Total:	74
Code	Elective courses	Credit
		3
		2
	Special Topics: Enterprise Program (2)	1

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Code	Elective courses	Credit
	Industrial Hygiene	3
	Elementary Practice in Chemical Engineering	2
	Green Technology and Low-Carbon Management	3
	Applied Microbiology	3
	Industrial Safety	3
	App Programming and Application	3
		3
	Introduction to the science of sustainable environment	2
		3
	Plant Cell and Tissue Culture	3
		3
	The Extraordinary Chemistry of Ordinary Things	2
	Special Topics: Enterprise Program (3)	1
		3
		3
	Special Topics: Enterprise Program (6)	1
	Special Topics: Enterprise Program (1)	1
	Technical English Reading	2
	Interfacial Chemistry and Formulation Development Practices	3
	Technical English	2
	Special Topics: Enterprise Program (4)	1
	Green Materials	3
		3
	Special Topics: Enterprise Program (5)	1
	Material Chemistry and Practices	3
	Analysis and Application of Food and Drug	3
	App Programming and Application	3
		3
	Occupational Safety and Health Act	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
AC1015	Introduction of Materials	3
AC2014	Introduction of Quantum Chemistry	3
AC3025	Natural Product Chemistry	3
AC3026	Introduction of Biotechnology	3

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Code	Elective courses	Credit
AC3027	Organic Reaction Mechanisms	3
AC3041	Fermentational Biotechnology	3
AC3044	Cosmetic	3
AC4004	Chemical Specialty	3
AC4022	Engineering Ethics	1
Total:		113

University Requirements	12 courses 30 credits
Core courses	33 courses 60 credits
Elective courses	Minimum elective 31 credits
Total requirement	130credits