

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2011 academic year)

Code	Core courses	Credit
	Service-Learning in Applied Chemistry	2
AC1001	Calculus(I)	2
AC1002	General Chemistry (I)	3
AC1004	General Biology (I)	2
AC1005	Introduction to Computers	3
AC1006	Calculus(II)	2
AC1007	General Chemistry (II)	3
AC1009	General Biology (II)	2
AC1010	General Physics	3
AC1015	Introduction of Materials	2
AC1016	General Chemistry Laboratory (I)	1
AC1017	General Chemistry Laboratory (II)	1
AC1018	Fundamental Mathematics	0
AC2001	Analytical Chemistry (I)	3
AC2002	Organic Chemistry(I)	4
AC2004	Analytical Chemistry(II)	3
AC2006	Organic Chemistry(II)	4
AC2013	Introduction of Life Science	2
AC2019	Analytical Chemistry Laboratory	1
AC2021	Organic Chemistry Laboratory (I)	1
AC2022	Organic Chemistry Laboratory (II)	1
AC3001	Physical Chemistry	3
AC3002	Inorganic Chemistry (I)	3
AC3003	Physical Chemistry (II)	3
AC3004	Biochemistry(I)	3
AC3005	Microbiology	3
AC3006	Inorganic Chemistry	3
AC3008	Biochemistry(II)	3
AC3010	Seminar(1)	1
AC3011	Instrumental Analysis(I)	3
AC3012	Seminar(2)	1
AC3050	Physical Chemistry Laboratory	1
AC3051	Biochemistry Laboratory	1
	Total:	73
Code	Elective courses	Credit
	Practical Training in Analytical Biochemistry	3
	Practical Training in Instrumental Analysis	3
	Advanced Chemistry Exercise	1

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Code	Elective courses	Credit
	Practical Training in the production and testing of Agricultural Biologicals	3
	Common Core Course on Vocation	0
	Green Materials	3
	Explorer Chemistry	2
	Chemistry Data Bases	3
	Enterprise Seminar II - Biochemical Science and Technology	1
	Application and Practice of Pheromone	3
	Textile Polymers and Practices	3
AC1011	Introductory Chemistry English	2
AC1013	Chemistry English	2
AC2008	Introduction of Biomaterials	2
AC2009	Mathematics for Chemistry	2
AC2010	Energy and Mass Balance	2
AC2011	Structure of Atoms and Molecules	3
AC2012	Computer and Chemistry	2
AC2014	Introduction of Quantum Chemistry	3
AC2020	Safety and Hygiene in Chemical Industries	2
AC3004	Biochemistry(I)	0
AC3013	Biological Statistics	3
AC3014	Special Topics of Chemical Industry	2
AC3016	Pesticide Chemistry	3
AC3017	Environmental Chemistry	3
AC3018	Enzymology	3
AC3019	Biophysics	3
AC3020	Material Chemistry	3
AC3021	Spectroscopy of Organic Chemistry	3
AC3022	Biological Pesticides	3
AC3023	Selected Topics(1)	2
AC3024	Medicinal Chemistry	3
AC3025	Natural Product Chemistry	3
AC3026	Introduction of Biotechnology	3
AC3027	Organic Reaction Mechanisms	3
AC3028	Surface Chemistry	3
AC3029	Polymer Chemistry	3
AC3031	Introduction of Analytical Chemistry of Environment	3
AC3032	Applied Microbiology	3
AC3033	Food Chemistry	3
AC3034	Organic Synthesis	3

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Code	Elective courses	Credit
AC3035	Introduction of Biochemical Engineering	3
AC3037	Introduction to GMO Products	3
AC3038	Selected Topics(2)	2
AC3039	Polymer Material	3
AC3040	Introduction of Electrochemistry	3
AC3041	Fermentational Biotechnology	3
AC3043	Analytical Chemistry of Medicine	3
AC3044	Cosmetic	3
AC3045	Instrumental Analysis(II)	3
AC3047	Green Chemistry	3
AC3052	Material Analysis	3
AC3053	Instrumental Analysis Laboratory	1
AC4001	Molecular Biology (I)	3
AC4002	Internship	2
AC4003	Special Topics in Inorganic Chemistry	3
AC4004	Chemical Specialty	3
AC4005	Introduction to Spectroscopy	3
AC4006	Molecular Biology (II)	3
AC4007	Cell Biology	3
AC4009	Introduction to Mmass Spectrometry	3
AC4010	Special Topics in Organic Synthesis	3
AC4012	Separation Science and Technology	3
AC4013	Bioprocess Engineering	3
AC4014	Bio-organic Chemistry	3
AC4015	NMR Spectroscopy	3
AC4016	Bio-Information	3
AC4017	Immunology	3
AC4018	Chemical Kinetics	3
AC4020	Organometallic Chemistry	3
AC4021	Electrical and Optical Properties of Material	3
AC4022	Engineering Ethics	1
AC4023	Selected Topics and Project Management	2

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Code	Elective courses	Credit
AC6063	Special Topics in Material Chemistry	3
Total:		195
University Requirements		11 courses 30 credits
Core courses		33 courses 63 credits
Elective courses		Minimum elective 30 credits
Total requirement		128credits