

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

<b>Code</b>	<b>Core courses</b>	<b>Credit</b>
AC5001	Seminar ( I )	1
AC5007	Seminar ( II )	1
AC5014	Lecture in Chemistry	0
AC5014	Lecture in Chemistry	0
AC5014	Lecture in Chemistry	0
AC5014	Lecture in Chemistry	0
AC6039	Seminar ( III )	1
AC6056	Seminar ( IV )	1
AC6079	Master Dissertation	3
AC6079	Master Dissertation	3
<b>Total:</b>		<b>10</b>
<b>Code</b>	<b>Elective courses</b>	<b>Credit</b>
	Special Topics of Organic Chemical Specialty (IV)	3
	Special Topics of Organic Chemical Specialty (III)	3
	Chemistries in Food Analysis	3
AC5003	Special Topics of Organic Research(I)	3
AC5004	Special Topics of Analytical Techniques(I)	3
AC5006	Special Topics in Biochemical Engineering(I)	3
AC5009	Special Topics of Organic Research(II)	3
AC5010	Special Topics of Analytical Techniques(II)	3
AC5012	Special Topics in Biochemical Engineering(II)	3
AC5015	Special Topic in Polymer Physics	3
AC5017	Special Topics in Material Chemistry (I)	3
AC5018	Special Topics in Material Chemistry (II)	3
AC5019	Interpretation of Mass Spectra	3
AC5020	Introduction of Electrical and Optical Properties of Material	3
AC6001	Special Topics in Physical Chemistry	3
AC6002	Advanced Inorganic Chemistry	3
AC6003	Advanced Organic Chemistry	3
AC6004	Special Topics in Organic Reactions	3
AC6005	Special Topics in Spectroscopy of Organic Chemistry	3
AC6007	Special Topics in Analytical Chemistry	3
AC6008	Analytical Biochemistry	3
AC6009	Advance Techniques for Separation	3
AC6010	Special Topics in Analytical Chemistry of Medicine	3
AC6011	Special Topics of Biochemistry	3
AC6012	Special Topics in Biotechnology	3
AC6013	Special Topics in Fermentational Biotechnology	3

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AC6014	Molecular and Cell Biology	3
AC6015	Structural Biology	3
AC6016	Proteomics	3
AC6017	Spectroscopy Bio-macromolecules	3
AC6018	Advanced Chemical Kinetics	3
AC6019	Special Topics in Organometallic Chemistry	3
AC6020	Advanced Organic Synthesis	3
AC6021	Free Radical Chemistry	3
AC6022	Asymmetric Synthesis	3
AC6023	Special Topics in Heterocyclic Chemistry	3
AC6025	Special Topics in Chemical Specialty	3
AC6027	Formulation Chemistry	3
AC6028	Special Topics in Polymer Chemistry	3
AC6029	Advanced Instrumental Analysis	3
AC6031	Application of Laser in Analytical Chemistry	3
AC6032	Special Topics in Applied Microbiology	3
AC6033	Special Topics in Bio-organic Chemistry	3
AC6035	Mass Spectrometry for Proteomics	3
AC6036	Enzyme Chemistry and Engineering	3
AC6037	Special Topics in NMR Spectroscopy	3
AC6038	Writing of Science and Technology Reports	2
AC6042	Special Topics of Analytical Techniques(III)	3
AC6044	Special Topics in Biochemical Engineering(III)	3
AC6046	Advanced Pesticide Chemistry	3
AC6047	Advanced Surface Chemistry	3
AC6048	Technique in Analytical Research	3
AC6049	Electrochemical Analysis	3
AC6050	Special Topic in Analytical Technology of Material	3
AC6051	Special Topics of Bioinformatics	3
AC6052	Special Topics of Biochemical Engineering	3
AC6053	Special Topics in Protein Chemistry	3
AC6059	Special Topics of Analytical Techniques(IV)	3
AC6061	Special Topics in Biochemical Engineering(IV)	3
AC6064	Special Topics in Analytical Chemistry of Environment	3
AC6067	SWOT Analysis of Agricultural Biotechnological Products	3
AC6068	Protein NMR	3
AC6071	Biological Fertilizers	3
AC6080	Special Topics in Material Chemistry (III)	3

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<b>Code</b>	<b>Elective courses</b>	<b>Credit</b>
AC6081	Special Topics in Material Chemistry (IV)	3
AC6082	Special Topic in Nanomaterials	3
AC6085	Advanced Polymer Materials	3
AC6086	Advanced Composite Materials	3
AC6087	Special Topics in Pharmacology	3
AC6088	Special Topics in Food Technology	3
<b>Total:</b>		<b>209</b>

<b>University Requirements</b>	
<b>Core courses</b>	<b>6 courses 4 credits</b>
<b>Elective courses</b>	<b>Minimum elective 20 credits</b>
<b>Total requirement</b>	<b>30credits</b>