

National Pingtung University
Department of Applied Chemistry – Master Program

Total credits: 24

1. Basic Course: at least 12 credits
2. Elective courses: at least 12 credits

Course Code	Subject	Credits	Hours	Required/ Selected	Grade	
ACI1101	Special Topic in Material Chemistry	3	3	Required	1	Choose one of two courses
ACI1103	Special Topic in Biochemistry	3	3	Required	1	
ACI1105	Seminar (I)	1	1	Required	1	
ACI1107	Study on Special Topic (I)	1	2	Required	1	
ACI1102	Advanced Material Chemistry	3	3	Required	1	Choose one of two courses
ACI1104	Advanced Biochemistry	3	3	Required	1	
ACI1106	Seminar (II)	1	1	Required	1	
ACI1108	Scientific English Writing	2	2	Required	2	
ACI1107	Study on Special Topic (II)	1	2	Required	1	

Course Code	Subject	Credits	Hours	Required/ Selected	Grade	
ACI1109	Thesis	6	6	Required	2	Not included in the graduation credits
ACI2101	Manufacture of Cosmetics	3	3	Selected	1-2	
ACI2103	Genome Science	3	3	Selected	1-2	
ACI2104	Tumor Biology	3	3	Selected	1-2	
ACI2105	Bioinformatics	3	3	Selected	1-2	
ACI2106	Photochemistry	3	3	Selected	1-2	
ACI2107	Laser Chemistry	2	2	Selected	1-2	
ACI2108	Electrochemistry	3	3	Selected	1-2	
ACI2109	Special Topics in Bioinorganic Chemistry	3	3	Selected	1-2	
ACI2110	Special Topics in Microbial Biochemical Engineering	3	3	Selected	1-2	
ACI2111	Toxicology	3	3	Selected	1-2	
ACI2112	Protein Chemistry	3	3	Selected	1-2	
ACI2102	Cosmeceuticals	3	3	Selected	1-2	
ACI2113	Special Topics in Organic Spectroscopy	3	3	Selected	1-2	

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ACI2124	Challenges and perspectives of Global Biotechnology	3	3	Selected	1-2
ACI2128	Advanced Organic Chemistry	3	3	Selected	1-2
ACI2114	Characterization of Nanomaterials	3	3	Selected	1-2
ACI2115	Organometallic Chemistry	3	3	Selected	1-2
ACI2116	Surface Chemistry	3	3	Selected	1-2
ACI2117	Biophysical Chemistry	3	3	Selected	1-2
ACI2118	Bioimaging Technology	3	3	Selected	1-2
ACI2119	Medicinal Chemistry	3	3	Selected	1-2
ACI2120	Immunology	3	3	Selected	1-2
ACI2121	Perfume Chemistry	3	3	Selected	1-2
ACI2122	Special Topics in Plant Biotechnology	3	3	Selected	1-2
ACI2124	Advanced Physical Chemistry	3	3	Selected	1-2