

National Pingtung University of Science and Technology

Department of Tropical Agriculture and International Cooperation

Curriculum Table of Undergraduate Program for Academic Year107-110

Year		First Academic Year				Second Academic Year			
Semester		First Semester		Second Semester		First Semester		Second Semester	
		Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour
Required	Every student	Applied Mandarin (1) - Foreign students	2/2	Applied Mandarin (2)- Foreign students	2/2	Applied Mandarin (3)- Foreign students	2/2	Applied Mandarin (4)- Foreign students	2/2
		History, Geography and Culture in Taiwan-Foreign students	2/2	Chinese (2)-Local students	2/2	Lectures on General Education- Local Students	1/1	English Listening & Speaking Practice- Local Students	1/1
		Chinese (1)-Local students	2/2	English(2)	2/2	General Education (*5)	2/2	General Education (*5)	2/2
		Foreign Language Proficiency Test (*2)	0/0	Physical Education (2)	1/2	Biometry/ Statistics	2/2	Microbiology	2/2
		English(1)	2/2	Student Life Service Education	0/0	Practice of Biometry/ Practice of Statistics	1/2	Practice of Microbiology	1/2
		Physical Education (1)	1/2	General Education (*5)	2/2	Practice of Statistics	2/2	Physical Education	1/2
		Student Life Service Education	0/0	Introduction to Computers	0/0	Marketing	2/2		
		General Education (*5)	2/2	Ecology	2/2	Biochemistry (1)	2/2		
		Introduction to Agronomy and Horticulture	2/2	Introduction to Animal Science	2/2	Biochemistry Lab. (1)	1/2		
		General Chemistry	3/3	Introduction of Food Science	2/2	Physical Education	1/2		
		General Chemistry Lab.	1/2			Introduction to World Aquaculture	2/2		
						Scientific Reading and Writing	2/2		
		Total		Foreign Students Local Students	15 13	Foreign Students Local Students	13 13	Foreign Students Local Students	17 16
Elective	Two Groups	Rural Sociology	2/2	Engineering Mechanics	3/3	Food Processing and Practice	3/3	Introduction of GIS	2/2
				Introduction to Entomology	2/2	Practice of Industrial Training(1) (*3)	4/	Human Resource Management	3/3
						English(3)	2/2	Hydrology	2/2
						Food Machinery	2/2	English(4)	2/2
						Surveying	2/2	Introductory Agricultural Automation	2/2
						Surveying Practice	1/2	Practices of Introductory Agricultural Automation	1/2
								Tropical Insect Pests Management	2/2
								Agricultural technology extension and education	2/2
								Agriculture in Tropical Regions	2/2
								Organic Chemistry	2/2
								Organic Chemistry Lab.	1/2

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Semester		First Semester		Second Semester		First Semester		Second Semester	
		Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour
Elective	Plant Group	Botany Practice of Botany	2/2 1/2	Field Crops Practice of Field Crops	2/2 1/2	Forest Products and Wood Science Plant Physiology Plant Physiology Lab. Soil and Fertilizer Practice of Soil and Fertilizer	2/2 3/3 1/2 2/2 1/2	Plant Propagation Techniques Practice of Plant Propagation Techniques	2/2 1/2
	Animal Group	Aquatic Biology Zoology Practice of Zoology	3/3 2/2 1/2	Anatomy and Physiology of Animal Practice of Anatomy and Physiology of Animal Environmental Physiology of Domestic Animals	3/3 1/2 2/2	Animal House Arrangement and Automation Practice of Animal Farm	2/2 1/2	Animal Nutrition Introduction to Aquaculture Practice of Animal Farm	2/2 3/3 1/2
Total		Plant Group Animal Group	5 8	Plant Group Animal Group	8 11	Plant Group Animal Group	23 17	Plant Group Animal Group	24 27

Year		Third Academic Year				Fourth Academic Year			
Semester		First Semester		Second Semester		First Semester		Second Semester	
		Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour
Required	Every student	General Education(*5) Biotechnology	2/2 2/2	General Education(*5) Constitution- Local students Special Projects Agribusiness Management	2/2 2/2 1/2 2/2	Special Projects Seminar	1/2 1/2	Seminar	1/2
	Total	Foreign Students Local Students	4 4	Foreign Students Local Students	5 7	Foreign Students Local Students	2 2	Foreign Students Local Students	1 1

Year	Third Academic Year				Fourth Academic Year				
Semester	First Semester		Second Semester		First Semester		Second Semester		
	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	
Elective	Two Groups	Applied Mandarin (5) - Foreign students	2/2	Applied Mandarin (6) - Foreign students	2/2	Swiftlet Farming	2/2	Apiculture	2/2
		English (5)	2/2	English (6)	2/2	Practice of Industrial Training (3) (*3)	4/	Practice of Apiculture	1/2
Irrigation		2/2	Molecular Biology	2/2	Food Biochemistry	2/2	Fermented Food Processing and Practice	3/3	
Biochemistry (2)		2/2	Introduction to Soil and Water Conservation	2/2	Applied Mandarin (7) - Foreign students	2/2	International Economy and Cooperation	2/2	
Biochemistry Lab. (2)		1/2	Laboratory Animal Operations	2/2	International Agriculture Development	2/2			
Genetics		2/2	Practice of Laboratory Animal Operations	1/2	Trends in Sustainable Development	3/3			
Practice of Genetics		1/2							
International Agricultural Status and Visits		2/2							
Agricultural Machinery Operation		2/2							
Economic Animal Feed Management		3/3							
Water and Land Resources and Irrigation		0.5/							
Ecological Pest Management and Control Technology		0.5/							
Environmental Data Record Controller		0.5/							
Plant Production System Operation		0.5/							
Greenhouse Management Practice - Plant Production	0.5/								
Industry Internship(*4)	9/								
Practice of Industrial Training (2) (*3)	4/								
Plant Group	Olericulture	2/2	Crop Breeding	2/2	Horticultural Production Under Structures	2/2	Cultivation of Edible Fungi	2/2	
	Practice of Olericulture	1/2	Practice of Crop Breeding	1/2	Practice of Horticultural Production Under Structures	1/2	Practice of Cultivation of Edible Fungi	1/2	
	Floriculture	2/2	Plant Tissue Culture Techniques	2/2	Landscape Architecture	2/2			
	Practice of Floriculture	1/2	Practice of Plant Tissue Culture Techniques	1/2	Practice of Landscape Architecture	1/2			
	Plant Protection	2/2	Pomology	2/2	Practice of Landscape Architecture	2/2			
	Practice of Plant Protection	1/2	Practice of Pomology	1/2	Weed Management	1/2			
			Postharvest Technology of Agricultural Products	2/2	Practice of Weed Management	2/2			
			Practice of Postharvest Technology of Agricultural Products	1/2	Turf Management	1/2			
					Practice of Turf Management	2/2			
					Crop Nutrition	1/2			
				Practice of Crop Nutrition					

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Semester		First Semester		Second Semester		First Semester		Second Semester	
		Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour	Courses	Credit/ Hour
Elective	Animal Group	Animal Breeding	3/3	Processing of Meat Products	2/2	Practice of Aquafarm	1/2	Practice of Aquafarm	1/2
		Fish Nutrition	3/3	Practice of Meat Products	1/2	Aquatic Animal Diseases	3/3	Fish Genetics and Breeding	3/3
		Processing of Dairy Products	2/2	Introduction to Immunology	2/2	Animal Feeds and Feeding	2/2		
		Practice of Dairy Products	1/2	Animal Reproduction	2/2	Livestock Health and	2/2		
		Poultry Feeding and Management	1/2	Feed Manufacture Technology	2/2	Transmissible Diseases			
		Practice of Poultry Feeding and Management	1/2	Practice of Feed Manufacture Technology	1/2	Practice of Livestock Health and Transmissible Diseases	1/2		
		Pig Feeding and Management		Aquaculture Business Management	2/2				
		Practice of Pig Feeding and Management	1/2	Pet Science(2)	2/2				
		Dairy Livestock Feeding and Management	1/2						
		Practice of Feeding and Management in Dairy Livestock	1/2						
		Pet Science(1)	2/2						
		Total		Foreign Students-Plant Group	43.5	Foreign Students-Plant Group	23	Foreign Students-Plant Group	30
		- Animal Group	51.5	- Animal Group	25	-Animal Group	24	Animal Group	12
		Local Students- Plant Group	41.5	Local Students- Plant Group	21	Local Students- Plant Group	28		
		-Animal Group	49.5	-Animal Group	23	-Animal Group	22		

Remark :

- Undergraduate students must complete a minimum of 130 credit hours to graduate. Local students: 63 credit hours in required courses and 67 credit hours in elective courses; Foreign students: 65 credit hours in required courses and 65 credit hours in elective courses.
- “Foreign Language Proficiency Test”: Students must take a Foreign Language Proficiency Test (conducted by a language training and testing institution with credibility) before graduation according to the “English Proficiency Requirements for Graduation”. Students from countries with English as their official language are exempted.
- “Practice of Industrial Training”: Students must complete a minimum of 320 hours of internship during the summer vacation according to the “Regulations for off-campus internship”.
- “Industry Internship”: Students must complete at least 18 weeks and not less than 720 hours or 4.5 months of internship during the semester according to the “Regulations for off-campus internship”.
- “General Education”: Students must complete 2 courses in ‘Contemporary Leisure and Health Promotion’; 3 courses in ‘Social Science’; 1 course in ‘Introduction of Geographic Information System and Its Applications’.
- For elective credits, students can choose courses freely in all fields according to their personal interests and availability of courses, and acquire general and diversified knowledge in agriculture. If a major is desired, the department currently offers two majors, “Animal Production” and “Plant Production”. A student must complete > 70% elective credits in the same major, either “Animal Production” or “Plant Production”, so that the major can be specified on the graduate certificate.