

Department of Computer Science and Information Engineering

Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Program	Four-year technical college program of the Day Division								
Group	None								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum	111. 04. 27, 111. 11. 29, 112. 04. 17, 112. 11. 28, 113. 04. 25 、 114. 04. 15							
	College Curriculum	111. 05. 20, 111. 12. 14, 112. 05. 17, 112. 12. 05, 113. 05. 23 、 114. 05. 16							
	University Curriculum	111. 06. 06, 111. 12. 26, 112. 05. 29, 112. 12. 12, 113. 06. 03 、 114. 06. 09							
	Academic Affairs	111. 06. 06, 111. 12. 26, 112. 05. 29, 112. 12. 29, 113. 06. 03 、 114. 06. 09							
Graduation Credits /Study Duration	At least 128 credits required (normally 4 years).								
Credit Load per Semester	Students in Grades 1 and 2 must take no fewer than 16 credits and no more than 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.								
Required and Elective	Credits		Subject Category		Credits				
Required	83 Credits		General Education		16 Credits				
			Major Required		67 Credits				
			College Major		0 Credits				
Elective	45 Credits		General Education		8 Credits				
			Major Elective		37 Credits				
Graduation	Course Title		Description				Regulations/Notes		
Cross-disciplinary Credit Courses	Cross-disciplinary Program Learning(0/1)		Students must complete at least one (micro) credit program offered by their respective college before graduation, or a (micro) credit program from another college with the approval of their own college.				1.Regulations for the Establishment of Credit Programs		
Cross-disciplinary Credit Program	Digital Technology Micro- Credit Program Learning(0/1)		A Micro-Credit Program in Digital Technology offered by the student' s respective college				2.Guidelines for the Implementation of Interdisciplinary (Micro) Credit Programs		
Practical Project	Practical Project(2/2)		According to the regulations of each department				1.Regulations for the Implementation of "Practical Projects, Special Projects, Research Projects, and Graduation Design" 2.Regulations of Each Department		
Other Regulations									
Remarks		"Computer Course" means computer access is required (computer and internet usage fee). Graduation Requirements : 「G01」 : Cross-disciplinary Credit Program: Cross-disciplinary Learning 「G02」 : Cross-disciplinary Credit Program: Digital Technology Micro Program 「G04」 : Practical Project							
First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	40I023	Chinese(1)	2/2		General Education	40I024	Chinese(2)	2/2	
General Education	400E00	English(I)	2/2		General Education	400F00	English(II)	2/2	

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31 Credits, 35 Hours					38 Credits, 41 Hours				
First Semester, Third Year					Second Semester, Third Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
Major Required	40IA38	Algorithm	3/3	Computer Course	Major Required	40IA24	Operating Systems	3/3	
Major Required	40IA47	Microcomputer Theorem and Practice	3/3	Computer Course	Major Required	40IA50	Forums of Computer Science and Information Engineering	2/2	
Major Elective	40IN38	Signals and Systems	3/3		Major Elective	40IN23	Originality Thinking Training	2/2	
Major Elective	40INE7	Artificial intelligence	3/3	Computer Course	Major Elective	40IN48	Digital Signal Processing	3/3	
Major Elective	40INL8	Java Application Practice	3/3	Computer Course	Major Elective	40INF9	Introduction to Cloud Management	3/3	
Major Elective	40INL9	Assembly Language Programming	3/3	Computer Course	Major Elective	40INI4	Deep Learning	3/3	Computer Course
Major Elective	40INM1	Numerical Methods	3/3	Computer Course	Major Elective	40INM6	Defensive and Offensive Cybersecurity	3/3	Computer Course
Major Elective	40INM2	Software Engineering	3/3	Computer Course	Major Elective	40INM7	Embedded System Design	3/3	Computer Course
Major Elective	40INM3	Introduction to Internet of Things	3/3	Computer Course	Major Elective	40INM8	Smart Phone Programming	3/3	Computer Course
Major Elective	40INM4	Practice of Intelligent Robot	3/3	Computer Course	Major Elective	40INO1	Full Stack Web Development and Management Practice	3/3	Computer Course
Major Elective	40INM5	Backend Web Development and Design	3/3	Computer Course	Major Elective	40INO9	The Practice of IOT Integration System	3/3	Computer Course
Major Elective	40IN02	Operating System and Database Security	3/3	Computer Course					
36 Credits, 36 Hours					31 Credits, 31 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
Major Required	40I012	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1	G01
Major Required	40IA35	Practical Project	2/4	G04	College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	G02
Major Elective	40ING2	Big Data Analysis	3/3	Computer Course	Major Elective	40IN27	Practical Training	2/3	
Major Elective	40IQ12	Hardware/software Technology	3/3		Major Elective	40INI3	Practical Applications of Artificial Intelligence	3/3	Computer Course
Major Elective	40IN33	Project Management	3/3		Major Elective	40INI6	Field Practice(2)	12/12	
Major Elective	40INB7	Practice of Image Processing Systems	3/3		Major Elective	40INJ5	Laws and Ethic in Information Security	3/3	
Major Elective	40ING6	Innovation and Entrepreneurship	2/2		Major Elective	40INJ9	IoT Threat Detection and Protection	3/3	Computer Course

Major Elective	40IN15	Field Practice(1)	12/12		Major Elective	40INK5	Introduction to Industry 4.0	3/3	
Major Elective	40INK4	Summer Internship	3/3		Major Elective	40INK9	Introduction to Smart Manufacturing	3/3	Computer Course
Major Elective	40IN03	Cloud Computing Practices	3/3	Computer Course	Major Elective	40IN07	Server Virtualization Practice	3/3	Computer Course
Major Elective	40IN05	Practice of Cyber Kill Chain	3/3	Computer Course	Major Elective	40IN08	Practicing of 3D Printing	3/3	Computer Course
Major Elective	40IN06	Theory and Applications for Sensors	3/3	Computer Course	Major Elective	40INP2	Practical Training	2/2	
Major Elective	40IQ13	Introduction to Smart Manufacturing	3/3						
Major Elective	40IQ14	Practical Application of AI Smart Equipments	3/3						
Major Elective	40IQ15	Labor Law	1/1						
47 Credits, 51 Hours					37 Credits, 40 Hours				