

Department of Electronic Engineering

Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program	Four-year technical college program of the Day Division		
Group	None		
Class Type	Regular Class		
Special Program	None		
Curriculum Committee	Department Curriculum	112. 4. 14 、 114. 04. 15 、 115. 04. 23 、 115. 09. 01	
	College Curriculum	112. 5. 24 、 114. 05. 16 、 115. 05. 19 、 115. 09. 11	
	University Curriculum	112. 5. 29 、 114. 06. 09 、 115. 06. 01 、 115. 09. 21	
	Academic Affairs	112. 5. 29 、 114. 06. 09 、 115. 06. 01 、 115. 09. 21	
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	93.00 Credits	General Education	23.00 Credits
		Major Required	68.00 Credits
		College Major	2.00 Credits
Elective	35.00 Credits	General Education Liberal Arts Elective	8.00 Credits
		Major Elective	27.00 Credits
		College professional selective courses	0.00 Credits
Graduation	Course Title	Description	Regulations/Notes
Cross-disciplinary Credit Courses	Cross-disciplinary Program Learning	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	A Micro-Credit Program in Digital Technology offered by the student’ s respective college	2.Guidelines for the Implementation of Interdisciplinary (Micro) Credit Programs
English Certificate	English Proficiency Test	Students must pass the General English Proficiency Test (GEPT) Basic Level (or equivalent) during their studies.	1.Principles for the Implementation of English Courses and English Proficiency Graduation Requirements
Practical Project	Practical Project	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
Professional	Professional	Students must obtain at least one	Regulations of Each

Off-campus internship	In accordance with the regulations of each department	In accordance with the regulations of each department	In accordance with the University's Regulations for Student Off-Campus Internships and the relevant 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 「G03」 : English Proficiency Certificate 「G04」 : Practical Project 「G05」 : Professional Certificate 「G06」 : Off-campus Internship								
First Semester, First Year					Second Semester, First Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
General Education	496103	Chinese(1)	2/2		General Education	496203	Chinese(2)	2/2	
General Education	492001	English(1)	2/2		General Education	492002	English (II)	2/2	
General Education	4912A0	physical education (1)	1/2		General Education	4912B0	physical education (2)	1/2	
General Education	490103	Community Service and Learning(1)	0/1		General Education	490203	Community Service and Learning(2)	0/1	
General Education	497A00	General Courses (I)	2/2		General Education	497B00	General Courses (II)	2/2	
Major Required	403A03	Physics(1)	3/3		Major Required	403A04	Physics(2)	3/3	
Major Required	403A05	Physics Lab.	1/2		Major Required	403A07	Calculus(2)	3/3	
Major Required	403A06	Calculus(1)	3/3		Major Required	403026	Introduction to Computer	2/3	Computer Course
Major Required	403A20	Introduction to Electronic Engineering	1/1		Major Required	403A08	Electrical Circuits	3/3	
Major Required	403C10	Introduction of Intelligent Control	2/2		Major Required	403B50	Career Counseling	2/2	
Major Required	403C11	Electronic Lab	2/3		Major Required	403C12	Practice of Intelligent Control Application	2/2	
19 Credits, 23 Hours					22 Credits, 25 Hours				
First Semester, Second Year					Second Semester, Second Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
General Education	496303	Practical Chinese	2/2		General Education	496503	Human Rights and Legal	2/2	
General Education	496403	Contemporary Taiwan and Moder World	2/2		General Education	492004	English (IV)	2/2	
General Education	492003	English(III)	2/2		General Education	4913D0	physical education (4)	1/2	
General Education	4913C0	physical education (3)	1/2		General Education	497D00	General Courses (IV)	2/2	
General Education	497C00	General Courses(III)	2/2		Major Required	403A10	Electronic Circuits(2)	3/3	
Major Required	403A09	Electronic Circuits(1)	3/3		Major Required	403A16	Digital System Design	3/3	

Major Required	403A22	Embedded System Overview	2/3		Major Required	403A71	Semiconductor Component Physics	3/3	
Major Required	403B51	Engineering Mathematics	3/3		Major Required	403C14	Introduction to Computer Network	2/3	Computer Course
Major Required	403B53	Philosophy Ethics	2/2		Major Required	403C15	Program Design	2/3	Computer Course
Major Required	403C13	Integrated Circuit Logic Design and Practice	3/4		Major Elective	403P48	The principle and applications of sensor and actuator	3/3	
					Major Elective	403P49	Fundamentals of optics	3/3	
					Major Elective	403P50	Introduction to Smart Manufacturing	3/3	
					Major Elective	403P51	Embedded System Interface Design	2/3	
22 Credits, 25 Hours					31 Credits, 35 Hours				
First Semester, Third Year					Second Semester, Third Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	403C16	Introduction to Artificial Intelligence	2/3		Major Elective	403P12	Solar Cell Measurement Practices	2/3	
Major Required	403J02	Introduction to Electromagnetics	3/3		Major Elective	403P14	Optoelectronic Devices	3/3	
Major Required	403K06	Wafer Process Technology	3/3		Major Elective	403P42	Introduction to Radio Frequency Communication Module	3/3	
Major Required	403K07	Technology of Semiconductor Packing	3/3		Major Elective	403P54	Programmable Logic Controller Principle and Application	3/3	
Major Elective	403N98	Internship of Circuit Design and Layout	3/3		Major Elective	403P55	Deep Learning Practice	3/3	
Major Elective	403P52	Electronic Material	3/3		Major Elective	403P56	Mobile Device Application Practice	2/3	
Major Elective	403Q34	Solar Cell Overview	3/3		Major Elective	403P83	English for Electronics	2/2	
					Major Elective	403P85	Opto-Electronic Devices Measurement Practice	2/3	
					Major Elective	403P90	Solar Cell Practical Ability Certification	3/3	
					Major Elective	403W05	Antenna Design Practice	2/3	
					Major Elective	403X22	Semiconductor Manufacturing Instruments	3/3	
					Major Elective	403X23	Introduction to Equipment Package	3/3	
20 Credits, 21 Hours					31 Credits, 35 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
General Education	492247	English Proficiency qualification	1/N	G03	College Major	40TNJ9	Interdisciplinary program learning	1/1	G01

Major Elective	403N22	The Measurement of the Semiconductor Device Lab.	3/3		College Major Required	40TNK1	Interdisciplinary Micro Course Program for Engineering Digital Technology	1/1	G02
Major Elective	403P24	Summer off-campus internship	3/3		Major Required	403C50	Practical Training	2/2	G04
Major Elective	403P34	Practice of IoT Integrated Application	3/3		Major Required	403C53	Practical ability of electronic certification	2/2	G05
Major Elective	403P47	Introduction to IC Packaging and Testing	3/3		Major Elective	403N12	Creativity	2/2	
Major Elective	403P57	Introduction to Smart Vehicles	3/3		Major Elective	403N23	Semiconductor Reliability Engineering	3/3	
Major Elective	403P58	Introduction to Electrostatic Protection Principles	3/3		Major Elective	403P16	Advanced Packaging Process Technology	3/3	
Major Elective	403P64	Semester Off-campus Internship (1)	9/9		Major Elective	403P60	Integrated Circuit Failure Analysis	3/3	
Major Elective	403P88	Testing for EMC Compliance	3/3		Major Elective	403P63	Smart Manufacturing Digital Virtual and Real Integration	3/3	
Major Elective	403P96	Visual Recognition Application Practice	3/3		Major Elective	403P65	Semester Off-campus Internship (2)	9/9	G06
Major Elective	403P99	Introduction to Semiconductor Facility	3/3		Major Elective	403W36	Practice to Intelligent Factory	3/3	
Major Elective	403Q04	Optoelectronic Display Devices	3/3						
40 Credits, 39 Hours					32 Credits, 32 Hours				