

Department of Electronic Engineering

Curriculum Requirements for Enrollees in the Academic Year 113 (Fall 2024)

Program	Four-year technical college program of the Day Division								
Group	None								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum	113.04.25							
	College Curriculum	113.05.23							
	University Curriculum	113.06.03							
	Academic Affairs	113.06.03							
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	81 Credits		General Education		19 Credits				
			Major Required		62 Credits				
			College Major		0 Credits				
Elective	47 Credits		General Education		8 Credits				
			Major Elective		39 Credits				
Other Regulations									
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).								
First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496803	Literary Appreciation and Expression	2/2		General Education	496903	Practical Chinese	2/2	
General Education	492001		2/2		General Education	492002	English (II)	2/2	
General Education	4912C0	Physical Education(1)	2/2		General Education	4912D0	Physical Education(2)	2/2	
General Education	490303	Community Service & Learning(1)	0.5/1		General Education	490403	Community Service & Learning(2)	0.5/1	
General Education	497A00		2/2		General Education	497B00		2/2	
Major Required	403A03	Physics(1)	3/3		Major Required	403A04	Physics(2)	3/3	
Major Required	403A26	Calculus	3/3		Major Required	403A08	Electrical Circuits	3/3	
Major Required	403A20	Introduction to Electronic Engineering	1/1		Major Required	403C10	Introduction of Intelligent Control	2/2	
Major Required	403B01	Electronic Lab.	3/3		Major Required	403A38	Introduction to Computer	3/3	Computer Course
Major Required	403C51	Laboratory of Physics	2/2						
20.5 Credits, 21 Hours					19.5 Credits, 20 Hours				
First Semester, Second Year					Second Semester, Second Year				

Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496403	Contemporary Taiwan and Moder World	2/2		General Education	496503	Human Rights and Legal	2/2	
General Education	492003	English(III)	2/2		General Education	497D00		2/2	
General Education	497C00		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	403A48	Embedded System Overview	3/3	Computer Course	Major Required	403A71	Semiconductor Component Physics	3/3	
Major Required	403B51	Engineering Mathematics	3/3		Major Required	403B57	Program Design	3/3	Computer Course
Major Required	403C42	Integrated Circuit Logic Design and Practice	3/3		Major Elective	403P48	The principle and applications of sensor and actuator	3/3	
Major Elective	403P83	English for Electronics	2/2		Major Elective	403P49	Fundamentals of optics	3/3	
Major Elective	403P86	Practice of Intelligent Control Application	2/2		Major Elective	403P50	Introduction to Smart Manufacturing	3/3	
					Major Elective	403P51	Embedded System Interface Design	2/3	
22 Credits, 22 Hours					27 Credits, 28 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	403C48	Introduction to Artificial Intelligence	3/3		Major Required	403A24	Philosophy Ethics	2/2	
Major Required	403C49	Career Counseling	2/2		Major Elective	403P54	Programmable Logic Controller Principle and Application	3/3	
Major Required	403K06	Wafer Process Technology	3/3		Major Elective	403P55	Deep Learning Practice	3/3	
Major Required	403K07	Technology of Semiconductor Packing	3/3		Major Elective	403P89	Antenna Design Pratices	3/3	
Major Elective	403N98	Internship of Circuit Design and Layout	3/3		Major Elective	403P90	Solar Cell Practical Ability Certification	3/3	
Major Elective	403P14	Optoelectronic Devices	3/3		Major Elective	403P91	Opto-Electronic Devices Measurement Practice	3/3	
Major Elective	403P52	Electronic Material	3/3		Major Elective	403X22	Semiconductor Manufacturing Instruments	3/3	
Major Elective	403P87	Introduction to Electromagnetics	3/3		Major Elective	403X23	Introduction to Equipment Package	3/3	
Major Elective	403Q34	Solar Cell Overview	3/3						
26 Credits, 26 Hours					23 Credits, 23 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	492103	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1	
Major Elective	403N22	The Measurement of the Semiconductor Device Lab.	3/3		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	

Major Elective	403P24	Summer off-campus internship	3/3		Major Required	403A62	Practical ability of electronic certification	0/3	
Major Elective	403P47	Introduction to IC Packaging and Testing	3/3		Major Required	403C50	Practical Training	2/2	
Major Elective	403P57	Introduction to Smart Vehicles	3/3		Major Elective	403N12	Creativity	2/2	
Major Elective	403P58	Introduction to Electrostatic Protection Principles	3/3		Major Elective	403N23	Semiconductor Reliability Engineering	3/3	
Major Elective	403P59	Visual Recognition Application Practice	2/3		Major Elective	403P16	Advanced Packaging Process Technology	3/3	
Major Elective	403P64	Semester Off-campus Internship (1)	9/9		Major Elective	403P34	Practice of IoT Integrated Application	3/3	
Major Elective	403P88	Testing for EMC Compliance	3/3		Major Elective	403P60	Integrated Circuit Failure Analysis	3/3	
Major Elective	403Q04	Optoelectronic Display Devices	3/3		Major Elective	403P65	Semester Off-campus Internship (2)	9/9	
					Major Elective	403W36	Practice to Intelligent Factory	2/4	
32 Credits, 35 Hours					27 Credits, 34 Hours				