

Department of Electrical Engineering

Curriculum Requirements for Enrollees in the Academic Year 115 (Fall 2026)

Program	Five-year junior college program of the Day Division		
Group	None		
Class Type	Regular Class		
Special Program	None		
Curriculum Committee	Department Curriculum	115.05.13	
	College Curriculum	115.05.19	
	University Curriculum	115.06.01	
	Academic Affairs	115.06.01	
Graduation Credits /Study Duration	At least 220 credits required (normally 5 years).		
Credit Load per Semester	During the first three academic years, students must take no fewer than 20 credits and no more than 32 credits per semester. During the last two academic years, students must take no fewer than 12 credits and no more than 28 credits per semester.		
Required and Elective	Credits	Subject Category	Credits
Required	167.00 Credits	General Required	78.00學分
		Major Required	89.00 Credits
		College Major	0.00 Credits
Elective	53.00 Credits	General Education Liberal Arts Elective	0.00 Credits
		Major Elective	53.00 Credits
		College professional selective courses	0.00 Credits
Graduation	Course Title	Description	Regulations/Notes
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
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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

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Other Regulations	1. 畢業總學分至少為 220 學分修業期限以五年為原則。 2. 前三年每學期不得少於20學分，不得多於32學分。 後兩年每學期不得少於12學分，不得多於28學分。 3. 跨科系部選修至多採認9學分。								
Remarks	"Computer Course" means computer access is required (computer and internet usage fee). Graduation Requirements : 「G04」 : Practical Project 「G04」 : Practical Project 「G05」 : Professional Certificate 「G06」 : Off-campus Internship 「G06」 : Off-campus Internship 「G06」 : Off-campus Internship Course Remark : 「T03」 : Internship / Practicum Courses are offered as scheduled during the semester.								
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 Required	596105	Chinese(1)	2/2		General Required	596205	Chinese(2)	2/2	
General Required	596805	Geography	2/2		General Required	596B05	History	2/2	
General Required	596905	Citizen and Society	2/2		General Required	596H05	Artistic Life	2/2	
General Required	596A05	Music	2/2		General Required	592205	English(2)	2/2	
General Required	596D05	Indegenous and Native Languages	2/2		General Required	593305	Biology	2/2	
General Required Courses	592105	English(1)	2/2		General Required Courses	594105	Introduction to Computer	3/3	Computer Course
General Required	595105	Mathematics(1)	4/4		General Required	595205	Mathematics(2)	4/4	
General Required	591105	physical education(1)	2/2		General Required	591205	Physical Education(2)	2/2	
General Required	590105	All-out Defense Education(1)	1/1		General Required	590205	All-out Defense Education(2)	1/1	
General Required	590305	Health and Nursing(1)	1/1		General Required	590405	Health and Nursing(2)	1/1	
Major Required	505101	Basic Electricity(1)	2/2		Major Required	505103	Basic Electricity(2)	2/2	
Major Required	505102	Introduction to Electrical Engineerin	2/2		Major Required	505138	Digital Logic	3/3	
Major Required	505137	Computer Graphics	3/3	Computer Course	Major Elective	505543	Indoor Electrical Wiring Practice	3/3	
Major Elective	505541	Computer Software Applications	3/3	Computer Course	Major Elective	505553	Electronic Component Desoldering and Soldering Practice	3/3	
Major Elective	505542	Fundamentals of Indoor Wiring	3/3						
33 Credits, 33 Hours					32 Credits, 32 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 Required	596305	Chinese(3)	2/2		General Required	596405	Chinese(4)	2/2	
General Required	596E05	Technology for Life	2/2		General Required	592405	English(4)	2/2	
General Required	592305	English(3)	2/2		General Required	593205	Physics	2/2	
General Required	593505	Chemistry	2/2		General Required	595405	Mathematics(4)	2/2	
General Required	595305	Mathematics(3)	2/2		General Required	591405	Physical Education(4)	2/2	
General Required	591305	Physical Education(3)	2/2		Major Required	505108	Electric Lab. (2)	2/3	T03
Major Required	505095	Programming Language	3/3	Computer Course	Major Required	505109	Electrical Circuits(2)	3/3	
Major Required	505104	Electric Lab. (1)	2/3	T03	Major Required	505110	Electronics(1)	3/3	
Major Required	505105	Electrical Circuits(1)	3/3		Major Required	505111	Electronics Lab. (1)	2/3	T03
Major Required	505106	Industrial Wiring	3/3		Major Required	505112	Computer Program	3/3	Computer Course
Major Required	505107	Logic Design and Practice	3/3	T03	Major Required	505113	Programmable control and internship	3/3	T03
26 Credits, 27 Hours					26 Credits, 28 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
General Required	596505	Chinese(5)	2/2		General Required	596605	Chinese(6)	2/2	
General Required	592505	English(5)	2/2		General Required	596F05	Law and Life	2/2	
General Required	591505	Physical Education(5)	2/2		General Required	592605	English(6)	2/2	
Major Required	505098	Calculus	2/2		General Required	591605	Physical Education(6)	2/2	
Major Required	505114	Electric Lab. (3)	2/3	T03	Major Required	505120	Electric Lab. (4)	2/3	T03
Major Required	505115	Mechatronics	3/3		Major Required	505122	Electrical Machinery(2)	3/3	
Major Required	505117	Electrical Machinery(1)	3/3		Major Required	505141	Engineering Mathematics	2/2	
Major Required	505119	Electronics(2)	3/3		Major Required	505143	Electric Machinery Lab.	2/3	
Major Elective	505501	Windows Programming	3/3	Computer Course	Major Elective	505504	Network Programming	3/3	Computer Course
Major Elective	505502	Simulation of electronics circuit	3/3	Computer Course	Major Elective	505505	Elementals of Sensor and Transducers	3/3	
Major Elective	505552	Introduction to Artificial Intelligence	3/3		Major Elective	505544	Computer-Aided Engineering Drawing	3/3	Computer Course
					Major Elective	505550	Industrial Electronics	3/3	
28 Credits, 29 Hours					29 Credits, 31 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
Major Required	505124	Electric Lab. (5)	3/3		General Required	596G05	Career Planning	1/1	
Major Required	505125	Single-Chip Application and Lab.	3/3	T03	Major Required	505131	Electric Lab. (6)	3/3	
Major Required	505126	Control System	3/3		Major Required	505139	Project in Practice (2)	2/2	G04
Major Required	505127	Control System Lab	3/3		Major Required	505140	Power Systems	3/3	
Major Required	505129	Project in Practice (1)	2/2	G04	Major Elective	505514	Electric Motor Control and Practice	3/3	T03
Major Required	505142	Engineering Mathematics and Its Application	2/2		Major Elective	505515	Electric Motorcycle Maintenance and Fault Diagnosis Practice	3/3	T03
Major Elective	505506	PC-based programming practice	3/3	T03	Major Elective	505516	Computer Graphics on Electrical Engineering	3/3	Computer Course
Major Elective	505507	Application to Sensor and Transducers	3/3		Major Elective	505517	Introduction to Image Processing	3/3	
Major Elective	505508	Computer-Aided Circuit Design and Practice	3/3	T03	Major Elective	505540	Microprocessors and Lab	3/3	T03
Major Elective	505510	Introduction to Multimedia	3/3		Major Elective	505545	Solar photovoltaic systems practice	3/3	
Major Elective	505512	Power Generation Technology for New and Renewable Resource	3/3		Major Elective	505546	Distribution Design	3/3	
Major Elective	505539	Computer Graphics	3/3	Computer Course	Major Elective	505551	Graphical Programming Language	3/3	Computer Course

34 Credits, 34 Hours

33 Credits, 33 Hours

五年級上學期

五年級下學期

Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Elective	505518	Summer off-campus internship	3/3	G06	Major Required	505136	Professional Certification Preparation	1/N	G05
Major Elective	505520	Energy Technology	3/3		Major Elective	505526	Electrical Engineering Practical Capability Certif	2/2	
Major Elective	505521	Electrical Materials	3/3		Major Elective	505529	Electricity Generating and Transforming Engineering	2/2	
Major Elective	505524	Power electronics	3/3		Major Elective	505530	Originality Thinking Training	2/2	
Major Elective	505525	3D Electrical Distribution Panel Design and Drafting	3/3	Computer Course	Major Elective	505531	Electrical Code	2/2	
Major Elective	505547	Power System Applications	3/3		Major Elective	505532	System Protections and Coordinations	3/3	
Major Elective	505548	Semester Off-campus Internship (1)	9/9	G06	Major Elective	505533	Air Conditioning Equipment	3/3	
Major Elective	505554	Artificial Intelligence and Applications	3/3		Major Elective	505534	Electrical Supervisory and Control Automation	3/3	
					Major Elective	505535	Network Analysis	3/3	

					Major Elective	505536	Power Electronics Lab.	3/3	T03
					Major Elective	505549	Semester Off-campus Internship (2)	9/9	G06
					Major Elective	505555	Industrial Safety and Management	2/2	
30 Credits, 30 Hours					35 Credits, 34 Hours				