

I-SHOU UNIVERSITY Department of <u>Electrical Engineering</u> 4-Year Curriculum for Students Admitted in Academic Year 2025								
Category	Freshman Year (2025)			Sophomore Year (2026)				
GE core courses: required (18 credits)	A93A34 Academic English [2]1st A93A28 Codes in Health and Medicine [2] 1st A93A35 Professional English [2] 2nd A93A20 Programming [2] 2nd A93A29 Secret Codes in Intelligent Technologies [2] 2nd A93A21 Civic Literacy in the Era of Globalization [2] 2nd A93A22 Chinese Literature 1.0- Reading, Narration and communication [2] 2nd			A93A23 Chinese Literature 2.0- Critical thinking and creativity in writing [2] 1st A93A15 Physical Education (I) [1] 1st A93A16 Physical Education (II) [1] 2nd				
College-required courses (10 credits)	A8DE01 Introduction to Computer Science [4] 1st A8D001 Calculus (I) [3] 1st A8DF01 Introduction to Computers Exercises [0] 1st A8D002 Calculus (II) [3] 2nd							
Category	Freshman Year (2025)		Sophomore Year (2026)	Junior Year (2027)		Senior Year(2028)		
Department- required courses (62 credits)	A01129	Computer Programming [3] 1st	A01213 Engineering Mathematics (I) [3] 1st	A01325	Electromagnetics (II) [3] 1st	A01924 Special Topic Studies(II) [1] 1st A01710 English ability [0]		
	A01687	General Physics [3] 1st	A01219 Electronics(I) [3] 1st	A01383	Communication System [3] 1st Control			
	A01255	Digital Logic [3] 1st	A01221 Electric Circuit Theory(I) [3] 1st	A01324	Engineering [3] 1st			
	A01688	General Physics Laboratory [1] 2nd	A01381 Signal and System [3] 1st	A01385	Basic Power Systems [3] 1st			
	A01634	Linear Algebra [3] 2nd	A01683 Experiment for Digital Electronics [1] 1st	A01847	Introduction to Electrical Engineering Laboratory [1] 1st			
	A01347	Microprocessor Theory [3] 2nd	A01686 Analog Electronics Laboratory [1] 1st	A01923	Special Topic Studies (I) [1] 2nd			
	A01010	Electrical Engineering Industry Exploration [1] 2nd	A01214 Engineering Mathematics (II) [3] 2nd					
			A01220 Electric Circuit (II) [3] 2nd					
Departmental electives (≥8 credits)	A01674	Introduction to Intelligent Robotics [3]	A01839 Introduction to Digital Systems [3]	A01386	Advanced Power Systems [3]	A01355 Industrial Power Distribution [3] A01434 Topic on Power Engineering [3] A01602 Power system stability [3] A01416 Linear Systems [3] A01622 Computer vision [3] A01444 Artificial Intelligence [3] A01478 Optimum Control [3] A01715 Cellular Neural Networks [3] A01993 Embedded System [3] A01144 Microwave Engineering [3] A01431 Antenna Design [3] A01458 Optoelectronic components [3] A01495 Optoelectronics [3] A01677 Integrated Optics [3] A01848 Practical Training(I) [3] 1st A01849 Practical Training (II) [3] 2nd		
	A01992	Introduction to Optoelectronics Technology [3]	A01698 Programmable Logic Controller [3]	A01460	Power Electronics [3]			
	A01921	Mathematics and Logic [3]	A01851 Probability [3]	A01994	Power Converter Design and Simulation [3]			
	A01988	Artificial Intelligence Essentials [3]		A01840	Smart Grid Technology and Applications [3]			
				A01476	Power Equipment [3]			
				A01424	Industrial Electronics [3]			
				A01675	Technology and Application of Solar Photovoltaic [3]			
				A01846	Electric machinery(II) [3]			
				A01707	Synthesis, Simulation and Verification of Field Programmable Chip [3]			
				A01704	Practice in Control Application [3]			
				A01462	Digital Communications [3]			
				A01708	Principle of Measurement for Microwave and Opto-electronic devices [3]			
				A01341	Numerical analysis [3]			
				A01702	MATLAB Program Language [3]			
	GE liberal arts education	GE liberal arts education: elective, 10 credits from “Humanities and Arts”, “Nature and Technology”, “Social Science”						
	Cross-domain electives	Up to 20 credits earned from courses, whether required or elective, offered by other departments/programs at I-Shou University or its partner universities will be recognized by the Department as credits from electives.						
Credits required for graduation from the Department	128 Credits							
Note	1.Students are required to meet the "English Proficiency" requirements set by the Department, in addition to earning the required number of credits to be eligible for graduation. 2.Before graduation, students are required to take at least one required cornerstone course offered by another college. The credits earned from such courses may be recognized as part of the credits under the category of Liberal Arts Education, but only a maximum of four credits will be recognized accordingly. (For more details about required cornerstone course offered by different colleges, please refer to the announcement on the website of the Curriculum Section.)							

