

Department of International Program on Intelligent Systems and Automation Engineering List of Core Courses for 2021

Category	Subject	Credits	Freshman		Sophomore		Junior		Senior		
			Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
GE Core	Chinese Literature A09900	3	3								
	English Reading A09901	3	3								
	English Writing and Composition A09902	3		3							
	Modern Culture and History A09903	4 choose 1	3	3							
	World Culture A09904										
	Presentation Skill A09905										
	Second Language A09906										
	Computer Programming A09200	3		3							
	Basic Medicine-Codes in Health and Medicine A93A28	2		2							
	Service Education I, II A93A17, A93A18	0	0	0							
	Physical Education I, II A93A15, A93A16	0			0	0					
	Smart Tech 101	2	2								
ISAE & Dept. Core	Introduction to Computer Science A80E01	4	4								
	Calculus(I)(II) A09100 、 A09102	6	3	3							
	Physics A09411	3	3								
	Introduction of Artificial Intelligence Technology A09907	3	3								
	Digital Logic Design A09400	3			3						
	MATLAB Programming A09412	3				3					
	Python Programming A09413	3				3					
	Automatic Control A09202	3				3					
	Microprocessor A09401	3					3				
	Computer Vision A09406	3					3				
	Artificial Intelligence A09407	3						3			
	Machine Learning A09414	1	1								
	Linear Algebra A09402	3		3							
	Engineering Mathematics (I)(II) A09203 、 A09205	6			3	3					
	Electric Circuits A09204	3			3						
	Signal & System A09410	3			3						
	Electronics A09206	3			3						
	Control Engineering Laboratory A09207	1				1					
	Electronics Laboratory A09209	1				1					
	Digital Systems Laboratory A09415	1					1				
	Communication System Laboratory A09210	1					1				
	Special Topic (I)(II) A09212 、 A09213	1						1			
	English Proficiency A09000	4						2	2		
Core Credits		83	22	20	18	11	5	5	2	0	
Elective	GE Elective Credits	15	http://www.ene.isu.edu.tw/2018/showpage_v01.php?dept_mno=454&dept_id=4&page_id=34760								
	Elective Credits	30	https://www.isu.edu.tw/2018/showpage_v01.php?dept_mno=657&dept_id=5&page_id=30167								
Required Credits for Graduation		128									

Remark:

1. Students taking practical courses shall take at least one off-campus internship under the category of departmental electives.
2. Students are required to meet the requirements set by ISAE for “English Proficiency,” in addition to earning the required number of credits to be eligible for graduation.

(For detailed information about the four-year curriculum, please refer to the website of ISAE)