

Department of International Program on Intelligent Systems and Automation Engineering List of Core Courses for 2020

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								
	World Culture A09904			3						
	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						
ISAE & Dept. Core	Physical Education I, II A93A15, A93A16	0			0	0				
	Introduction to Computer Science A80E01	4	4							
	Calculus(I)(II) A09100、A09102	6	3	3						
	Physics A09411	3	3							
	Digital Logic Design A09400	3	3							
	Mechanism A09201	3			3					
	Electric Machinery A09408	3				3				
	Automatic Control A09202	3				3				
	Microprocessor A09401	3				3				
	Communication System A09409	3					3			
	Computer Vision A09406	3					3			
	Artificial Intelligence A09407	3						3		
	Introduction of Artificial Intelligence Technology A09907	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 A09208	1					1			
	Communication System Laboratory A09210	1					1			
	Mechatronics Laboratory A09211	1						1		
	Special Topic(I)(II)A09212、A09213	4						2	2	
	English Proficiency A09000	0							0	
Core Credits		82	20	17	15	14	8	6	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	31	https://www.isu.edu.tw/2018/showpage_v01.php?dept_mno=657&dept_id=5&page_id=30167							
Required Credits for Graduation		128								

Remark:

- Students taking practical courses shall take at least one off-campus internship under the category of departmental electives.
- 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)