I-SHOU UNIVERSITY

Department of <u>Department of Information Engineering</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2023</u>

* Credits required for graduation from the Department: 128, including:

- 1. GE core courses: required, 18 credits
- 2. GE liberal arts education: elective, 10 credits
- 3. Service Education: required, <u>0</u> credits
- 4. Physical Education: required, <u>0</u> credits
- 5. College-required courses: <u>10</u> credits (including <u>1</u> college-level cornerstone courses)
- 6. Department-required courses: <u>56</u> credits, including academic + practical courses: <u>53</u> credits, academic courses: <u>47</u> credits, practical courses: <u>6</u> credits, and capstone courses: <u>3</u> credits
- 7. Departmental electives: <u>14</u> credits
 - a. Academic courses: <u>21</u> credits; taking <u>21</u> credits out of <u>71</u> credits
 - b. Practical courses: 21 credits; taking 21 credits out of 63 credits; at least 3 credits from off-campus internship
- 8. Other electives: 20 credits

Notes:

- 1. Students are required to meet the requirements set by the Department for "English Proficiency," "Information Competency," and "Professional Certification," 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.)

			F	reshmar	Year (2	Sophomore Year (2024)							
Categor y	Course Code	Course Title	1 st Semeste r	2 nd Semester	Required / Elective		Categor y	Course Code	Course Title	1 st Semeste r	2 nd Semeste r	Required / Elective	Remark
	A93A17	Service Education (I)	0		Required			A93A1 5	Physical Education (I)	0		Required	
	A93A18	Service Education (II)		0	Required			A93A1 6	Physical Education (II)		0	Required	
Gene ral Educ ation	A93A20	Programming			Required	Core(2 credits)		A93A2 3	Chinese Literature 2.0- Critical thinking and creativity in writing	2		Required	Core
	A93A21	Civic Literacy in the Era of Globalization		2	Required	Core (Freshman Year 2nd Semester or Sophomore Year 1st Semester)	Gene ral Educ ation	A93A2 1	Civic Literacy in the Era of Globalization	2		Required	Core (Freshman Year 2nd Semester or Sophomor e Year 1st Semester)
	A93A22	Chinese Literature 1.0- Reading, Narration and communicatio n		2	Required	Core		A93A3 2	English in Practice III	2		Required	Core
	A93A30	English in Practice I	1		Required	Core		A93A3 3	English in Practice IV		2	Required	Core
	A93A31	English in Practice II		1	Required	Core	Depa rtme						
	A93A28	Codes in Health and Medicine			Required	Core(2 credits)	nt-re quire d Cour ses	A03218	Data Structure	3		Required	Academic

		redits for this						A03378	Artificial Intelligence in Practice	3		Elective	Practical
ntal Electi ves		114011003						A03277	Assembly Language		3	Elective	Academic
	A03260	Basic Network Practices		3	Elective	Practical		A03254	Advanced Data Structures		3	Elective	
Depa rtme	A03146	Basic Electricity		3	Elective	Academic		A03271	Web		3	Elective	
	A03143	Introduction to information Engineering		2	Elective	Academic		A03264	Embedded System Software Design		3	Elective	Practical
	A03377	Basic physics		3	Elective	Academic		A03493	Multimedia Programming		3	Elective	Practical
	A03238	Linear Algebra		3	Required	Academic	ntal Electi ves	A03322	Computer and Data Communicatio n		3	Elective	Academic
	A03179	Object Oriented Programming		4	Required	Academic	Depa rtme	A03320	Introduction to Digital Image Process		3	Elective	Academic
Cour ses	A03145	Introduction to Computer Network	3		Required	Academic		A03278	IoT for Health Care	3		Elective	
rtme nt- requi red	A03149	Information Engineering Exploration	1		Required	Academic		A03330	TCP/IP and Network Programming	3		Elective	
Depa	A03151	Artificial intelligence Introduction	3		Required	Academic		A03273	Introduction to Embedded System Hardware	3		Elective	Academic
	A03211	Discrete Mathematics	3		Required	Academic		A03512	Multimedia Application	3		Elective	Practical
	A03125	Computer Programming	3		Required	Academic		A03032	Introdution to Artificial Intellignence	3		Elective	
	A8D002	Calculus(II)		3	Required	Academic		A03313	Computer Organization		3	Required	Academic
Colle ge-re quire d Cour ses	A8DF01	Computer Science Practice	0		Required			A03305	Algorithm		3	Required	Academic
	A8DE0 1	Introduction to Computer Science	4		Required			A03231	Digital Systems Laboratory		1	Required	Practical
	A8D001	Calculus(I)	3		Required	Academic		A03311	Probability		3	Required	Academic
	A93A29	in Intelligent Technologies			Required	credits		A03234	Digital Systems	3		Required	Academic
		Secret Codes				Core(2		A03276	Engineering Mathematics	3		Required	Academic

I-SHOU UNIVERSITY

Department of <u>Department of Information Engineering</u> 4-Year Curriculum for Students Admitted in Academic Year <u>2022</u>

Junior Year (2025) Senior Year (2026)

		r Year (2025	<u>/</u>			nor year	(
Categor y	Course Code	Course Title	1 st Semeste r	2 nd Semeste r	Required / Elective	Remark	Categor y	Course Code	Course Title	1st Semeste r	2 nd Semeste r	Require / Electiv
Depa rtme	A0331 7 A0336 9	Data-base	3		Required Required	Academi c Academi c	Depa rtme	A0355 5	Information Ethics and Career Planning	2		Require
nt- requi red	A0330 4	Operating Systems		3	Required	Academi c	nt-re quire d	A0334 6	Special Topics Studies (II)	3		Require
Cour ses	A0334 5	Special Topics Studies (I)		3	Required	Practical	Cour ses	A0348	English Proficiency	0		Require
	A0340 6	Wireless Communication System	3		Elective	Academi c		A03250	Wireless Networks	3		Elective
	A0340 8	Local and High Speed Network	3		Elective	Academi c		A03486	Computing	3		Elective
	A0333 2	Computer Graphics	3		Elective	Academi c		A0344 5	Computer Vision	3		Elective
	A0336	Microcomputer System	3		Elective	Academi c		A0325	DSP IP Design	3		Elective
	A0333 6	Linux 0S	3		Elective	Academi c		A03414	Parallel Algorithms	3		Elective
	A0327 9	Programming Language	3		Elective	Academi c		A03441	Compiler Theory	3		Elective
	A0334	Introduction to Cloud Computing Technologies	3		Elective	Practical		A03668	Digital Image Compression	3		Elective
	A0337 0	Machine Learning	3		Elective	Practical		A03333	Techniques of Embedded Systems	3		Elective
Depa rtme	A0337 6	Programming ability contest	3		Elective	Practical	Depa rtme	A03547	Big Data	3		Elective
ntal Electi ves	A0336 5	Artificial intelligence and biomedical sensing	3		Elective		ntal Electi ves	A0355 0	Wireless Communicatio n Technologies in IoT	3		Elective
	A0324 4	Programming Techniques	3		Elective			A0337 5	Deep Learning	3		Elective
	A0331 6	Numerical Methods	3		Elective			A03556	Block Chain Technology	3		Elective
	A0326 9	Chip Design	3		Elective	Academi c		A03465	Fuzzy Theory	3		Elective
	A0315	Design of embedded multimedia software	3		Elective			A03671	Data Mining	3		Elective
	A0343 4	Software Engineering		3	Elective	Practical		A03338	E. S. Application		3	Elective
	A0335 4	Handset Programming		3	Elective	Practical		A0374 6	Industrial Analysis of Technology		3	Elective

Total Required (Academ			12		Total Required Credits for this Academic Year			5		
A0315 2	IoT Security	3	Electiv	/e						
A0315	Data Analysis	3	Electiv	/e		A03281	Practical Training (II)		3	Electiv
A0337	Service and Knowledge Practitioner	2	Electiv	/e		A03280	Practical Training (I)	3		Elective
A0342	Cryptology	3	Electiv	/e		A0346 6	Text Mining		3	Elective
A0345	Information Security	3	Electiv	Academi c		A0335 8	Nature Language Processing		3	Elective
A0333	New-Generation Network Technology	3	Electiv	Academi c		A0355 2	Intelligent Cloud-based Multimedia		3	Elective
A0345 4	Data Compression	3	Electiv	Academi c		A0355	Blockchain Implementation		3	Elective
A0350 8	Computer Architecture	3	Electiv	/e Academi		A0344 6	Introduction to Virtual Reality		3	Elective
A0342	Multimedia Signal Processing	3	Electiv	Academi c		A0345	Network Communicatio n Protocol		3	Elective
A0335 5	Cloud Web Programming	3	Electiv	e Practical		A0346 9	Distributed System		3	Elective
A0335 0	* *	3	Electiv	re Practical		A0367 5	Soft Computer		3	Elective

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