

**Course Structure for M.A. Program**  
**Graduate Institute of AI Interdisciplinary Applied Technology**  
**National Taiwan Normal University**

Adaptive to Class of	Required Credit(s)	Elective Credit(s)	Free Elective Credit(s)	Minimum Total Credits for Graduation
114	3.0	15.0	6.0	24.0

Note: The first alphabet "E" on the course name refers to the course in English as a medium of instruction

**I. Required Courses: 3.0 credits are required**

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
C0C8001	1 E Seminar	1.0	0.0	2.0	This course must be retaken with a passing score for 3 times

**II. Elective Courses: 15.0 credits are required**

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
AIC8001	1 E Computer Vision	3.0	3.0	0.0	
AIC8002	2 Digital Still Camera Design	3.0	3.0	0.0	
AIC8003	3 Advanced Image Processing	3.0	3.0	0.0	
AIC8004	4 Artificial Neural Network	3.0	3.0	0.0	
AIC8005	5 Parallel Computing	3.0	3.0	0.0	
AIC8006	6 Introduction and Application of Internet of Things	3.0	3.0	0.0	
AIC8007	7 Advanced Computer Architectures	3.0	3.0	0.0	
AIC8008	8 E Machine Learning	3.0	3.0	0.0	
AIC8009	9 DSP Architecture Design	3.0	3.0	0.0	
AIC8010	10 E Evolutionary Computation	3.0	3.0	0.0	
AEC8058	11 E Deep Learning	3.0	3.0	0.0	
AEC8059	12 E Reinforcement Learning	3.0	3.0	0.0	
CSC0001	13 Data Mining	3.0	3.0	0.0	
CSC0012	14 Speech Processing	3.0	3.0	0.0	
CSC0023	15 Natural Language Processing	3.0	3.0	0.0	
CSC0049	16 Advanced Computer Graphics	3.0	3.0	0.0	
CSC0072	17 Information Security	3.0	3.0	0.0	
CSC9005	18 E Data Visualization	3.0	3.0	0.0	
C0C8002	19 Industry Internship	3.0	3.0	0.0	
AIC8011	20 Smart Video System Design	3.0	3.0	0.0	
AIC8012	21 AI Systems Demonstration and Implementation	3.0	3.0	0.0	
AIC8013	22 AI Security	3.0	3.0	0.0	
AIC8014	23 Intelligent Long-Term Care and Healthcare Information Systems	3.0	3.0	0.0	
AIC8016	24 Computer Graphics and 3d Camera System Integration	3.0	3.0	0.0	
AIC8015	25 Machine Learning and Applications in Image Recognition	3.0	3.0	0.0	

**III. Free Elective Credits: 6.0 credits are required**