

Course Structure for M.A. Program
, Department of Electrical Engineering
National Taiwan Normal University

Adaptive to Class of	Required Credit(s)	Elective Credit(s)	Free Elective Credit(s)	Minimum Total Credits for Graduation
110	4.0	21.0	6.0	31.0

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

I. Required Courses: 4.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
AEC8001	1 E Seminar (I)	1.0	2.0	0.0	This course must be retaken with a passing score for 2 times
AEC8002	2 E Seminar (II)	1.0	2.0	0.0	This course must be retaken with a passing score for 2 times

II. Elective Courses: 0.0 credit is required

III. Courses Offered to Students in Different Divisions

Required Course, 0.0 credit is required

Elective Course: 21.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
AEC8013	1 E Adaptive Control	3.0	3.0	0.0	
AEC8012	2 E Digital Still Camera Design	3.0	3.0	0.0	
AEC8057	3 E Evolutionary Computation	3.0	3.0	0.0	
AEC8060	4 E Robot Vision	3.0	3.0	0.0	
AEC8059	5 E Reinforcement Learning	3.0	3.0	0.0	
AEC8058	6 E Deep Learning	3.0	3.0	0.0	
AEC8015	7 E Simultaneous Localization and Mapping for Robotics	3.0	3.0	0.0	
AEC8018	8 E Machine Learning	3.0	3.0	0.0	
AEC8017	9 E Intelligent Humanoid Robotics	3.0	3.0	0.0	
AEC8016	10 E Computer Vision	3.0	3.0	0.0	
AEC8020	11 E Pattern Recognition	3.0	3.0	0.0	
AEC8019	12 E Video Communication	3.0	3.0	0.0	
AEC8041	13 E IC and ESD Protection Design	3.0	3.0	0.0	
AEC8021	14 E Stochastic Processes	3.0	3.0	0.0	
AEC8023	15 E Computer Simulations of Communications Systems	3.0	3.0	0.0	
AEC8025	16 E Engineering Probability and Statistics	3.0	3.0	0.0	
AEC8038	17 E Robotic Control	3.0	3.0	0.0	
AEC8004	18 E Digital Control Systems	3.0	3.0	0.0	
AEC8045	19 E MIMO Communication Transceiver Design and Implementation	3.0	3.0	0.0	
AEC8047	20 E VLSI Design	3.0	3.0	0.0	
AEC8011	21 E Embedded Systems	3.0	3.0	0.0	

IV. Free Elective Credits: 6.0 credits are required