

Course Structure for M.A. Program
The Graduate Institute of Sustainability Management and Environmental Education
National Taiwan Normal University

Adaptive to Class of	Required Credit(s)	Elective Credit(s)	Free Elective Credit(s)	Minimum Total Credits for Graduation
112	17.0	15.0	0.0	32.0
	17.0	15.0	0.0	32.0
	17.0	15.0	0.0	32.0
	17.0	15.0	0.0	32.0

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

I. Required Courses: 14.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8069	1 E Seminar (I)	2.0	2.0	0.0	
EEC8070	2 E Seminar (II)	2.0	2.0	0.0	
EEC8071	3 E Seminar (III)	2.0	2.0	0.0	
EEC8072	4 E Seminar (IV)	2.0	2.0	0.0	
EEC8048	5 E Environmental Science	3.0	3.0	0.0	
EEC8056	6 E Research Methodology	3.0	3.0	0.0	

II. Elective Courses: 0.0 credit is required

III. Courses Offered to Students in Different Divisions

A-1. Required Course for , 3.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8065	1 E Research on Sustainability Management	3.0	3.0	0.0	

A-2. Elective Course for , 15.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8067	1 Research on Climate Change and Ecosystem Services	2.0	2.0	0.0	
EEC8068	2 Practicum in Sustainability Management and Environmental Education	2.0	0.0	4.0	
EEC0003	3 Planning and Management of Sustainable Campus	3.0	3.0	0.0	
EEC0004	4 Nature and Culture Resources Conservation	3.0	3.0	0.0	
EEC0006	5 Issues and Strategies on Local Sustainable Development	3.0	3.0	0.0	
EEC0008	6 Methods for Habitat Ecology	3.0	3.0	0.0	
EEC0009	7 International Collaboration of Environmental Education Study	3.0	3.0	0.0	
EEC0012	8 Special Topics on Ecotourism and Ecoeducation	2.0	2.0	0.0	
EEC0013	9 Special Topics on Ecoinformation	2.0	2.0	0.0	
EEC0014	10 Special Topics on Ecoculture Education	2.0	2.0	0.0	
EEC0016	11 Environmental Interpretation	3.0	3.0	0.0	
EEC0017	12 Community Environmental Education	3.0	3.0	0.0	
EEC0018	13 Principles and Practices of Environmental Learning Center	3.0	3.0	0.0	
EEC0019	14 Qualitative Research Methodology of Environmental Education	3.0	3.0	0.0	
EEC0020	15 Special Topics on Natural Ecological Conservation	2.0	2.0	0.0	
EEC0022	16 Special Topics on Sustainable Development	2.0	2.0	0.0	
EEC0023	17 Special Topics on Global Environment Issues	2.0	2.0	0.0	
EEC0026	18 Special Topics on Environmental Values Education	2.0	2.0	0.0	
EEC0027	19 Special Topics on Environmental Science	2.0	2.0	0.0	
EEC0029	20 Planning of Environmental Education System	3.0	3.0	0.0	
EEC0035	21 E Philosophy of Recreation and Leisure	3.0	3.0	0.0	
EEC0036	22 Environmental Sociology	3.0	3.0	0.0	
EEC0037	23 Environmental Change and Civilization	3.0	3.0	0.0	
EEC0040	24 Ocean Policies and International Island Societies	3.0	3.0	0.0	
EEC8001	25 Environmental Discourse, Communication, and Academic Thesis Writing	3.0	3.0	0.0	
EEC8002	26 Environmental Ethics	3.0	3.0	0.0	
EEC8003	27 E Wetlands Environmental Education	3.0	3.0	0.0	
EEC8004	28 The Theory and Practice of Planning and Design for Sustainability	3.0	3.0	0.0	
EEC8005	29 Environmental Behavior Science	3.0	3.0	0.0	
EEC8006	30 Environmental Education Philosophy	3.0	3.0	0.0	

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8007	31 Idea and Principle of Eco-philosophy	3.0	3.0	0.0	
EEC8008	32 Issues and Trends in Environmental Education	3.0	3.0	0.0	
EEC8009	33 Critical Analysis on Ecological Issues	3.0	3.0	0.0	
EEC8010	34 E Sustainability Sciences	3.0	3.0	0.0	
EEC8011	35 Alternative Paradigms for Environmental Education Research	3.0	3.0	0.0	
EEC8012	36 E Methods for Eco-information Analysis	3.0	3.0	0.0	
EEC8013	37 Methods for Environmental Education Program Evaluation	3.0	3.0	0.0	
EEC8014	38 Special Topics on Environmental Education and Environmental Issues	2.0	2.0	0.0	
EEC8015	39 Special Topics on Islands Sustainable Development	2.0	2.0	0.0	
EEC8016	40 Special Topics on Human Dimensions of Environmental Change	2.0	2.0	0.0	
EEC8017	41 Pedagogy of Environmental Education	3.0	3.0	0.0	
EEC8018	42 Special Topics on Environmental Interpretation	2.0	2.0	0.0	
EEC8019	43 Environmental Discourse and Academic Writing	3.0	3.0	0.0	
EEC8020	44 Environmental Philosophy	3.0	3.0	0.0	
EEC8021	45 Corporate Management and Sustainable Development	3.0	3.0	0.0	
EEC8023	46 Environmental Ecology	3.0	3.0	0.0	
EEC8025	47 Curriculum Design in Environmental Education	3.0	3.0	0.0	
EEC8026	48 Teaching Practice of Ecological and Environmental Education	2.0	2.0	0.0	
EEC8027	49 Environmental Communication	3.0	3.0	0.0	
EEC8028	50 Environmental Policies and Management	2.0	2.0	0.0	
EEC8029	51 River Environmental Education	3.0	3.0	0.0	
EEC8030	52 Special Topics in Formal Environmental Education	2.0	2.0	0.0	
EEC8031	53 Special Topics in Non-formal Environmental Education	2.0	2.0	0.0	
EEC8032	54 Special Topics in Environmental Conservation	2.0	2.0	0.0	
EEC8033	55 Special Topics in Conservation Biology	2.0	2.0	0.0	
EEC8034	56 Special Topics in Environmental Ethics	2.0	2.0	0.0	
EEC8035	57 Special Topics in Outdoor Environmental Education	2.0	2.0	0.0	
EEC8036	58 Administration of Environmental Education	3.0	3.0	0.0	
EEC8037	59 Teaching Materials and Methods of Ecology	2.0	2.0	0.0	
EEC8038	60 Eco-photography and Environmental Education	3.0	3.0	0.0	
EEC8039	61 Island Environment and Development	3.0	3.0	0.0	
EEC8040	62 Eco-Environmental Impact Assessment (EEIA)	3.0	3.0	0.0	
EEC8041	63 National Parks and Nature Reserves: Theories and Practice	3.0	3.0	0.0	
EEC8042	64 Environmental Education in Museums	3.0	3.0	0.0	
EEC8043	65 Ecological Engineering Methods and Environmental Education	3.0	3.0	0.0	
EEC8044	66 Environmental Economics	3.0	3.0	0.0	
EEC8045	67 Disaster Prevention and Mitigation Education	3.0	3.0	0.0	
EEC8046	68 Practices and Analysis of Green Industries	3.0	3.0	0.0	
EEC8047	69 Interpretation and Recreation Resource Management	3.0	3.0	0.0	
EEC8049	70 E Environmental Information and Spatial Visualization	3.0	3.0	0.0	
EEC8050	71 E International Environmental Communication	3.0	3.0	0.0	
EEC8051	72 E Environmental Systems Analysis	3.0	3.0	0.0	
EEC8052	73 Climate Change Education for Sustainable Development	3.0	3.0	0.0	
EEC8053	74 E Climate Change and Disaster Risk in Asia-Pacific	3.0	3.0	0.0	
EEC8054	75 Environmental Data Processing and Analysis	3.0	3.0	0.0	
EEC8055	76 Theories and Practices of Circular Economy	3.0	3.0	0.0	
EEC8057	77 Carbon Management	3.0	3.0	0.0	
EEC8058	78 Regional Planning and Management toward Sustainability	3.0	3.0	0.0	
EEC8059	79 E Conservation Psychology	3.0	3.0	0.0	
EEC8060	80 Outdoor Education	3.0	3.0	0.0	
EEC8061	81 Pedagogy and Teaching Material in Environmental Education	3.0	3.0	0.0	
EEC8062	82 Sustainable Finance	3.0	3.0	0.0	
EEC8063	83 Case Studies in Sustainability Management	3.0	3.0	0.0	
EEC8064	84 Analysis and Application of Sustainability-Related Financial Reporting	3.0	3.0	0.0	
EEC8066	85 E Climate Change and Society Studies	3.0	3.0	0.0	
EEM0088	86 Practicum in Environmental Education	2.0	0.0	4.0	
EEC8022	87 E Studies in Environmental Education	3.0	3.0	0.0	

B-1. Required Course for , 3.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8022	1 E Studies in Environmental Education	3.0	3.0	0.0	

B-2. Elective Course for , 15.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8065	1 E Research on Sustainability Management	3.0	3.0	0.0	
EEC8067	2 Research on Climate Change and Ecosystem Services	2.0	2.0	0.0	
EEC8068	3 Practicum in Sustainability Management and Environmental Education	2.0	0.0	4.0	
EEC0003	4 Planning and Management of Sustainable Campus	3.0	3.0	0.0	
EEC0004	5 Nature and Culture Resources Conservation	3.0	3.0	0.0	
EEC0006	6 Issues and Strategies on Local Sustainable Development	3.0	3.0	0.0	
EEC0008	7 Methods for Habitat Ecology	3.0	3.0	0.0	
EEC0009	8 International Collaboration of Environmental Education Study	3.0	3.0	0.0	
EEC0012	9 Special Topics on Ecotourism and Ecoeducation	2.0	2.0	0.0	
EEC0013	10 Special Topics on Ecoinformation	2.0	2.0	0.0	
EEC0014	11 Special Topics on Ecoculture Education	2.0	2.0	0.0	
EEC0016	12 Environmental Interpretation	3.0	3.0	0.0	
EEC0017	13 Community Environmental Education	3.0	3.0	0.0	
EEC0018	14 Principles and Practices of Environmental Learning Center	3.0	3.0	0.0	
EEC0019	15 Qualitative Research Methodology of Environmental Education	3.0	3.0	0.0	
EEC0020	16 Special Topics on Natural Ecological Conservation	2.0	2.0	0.0	
EEC0022	17 Special Topics on Sustainable Development	2.0	2.0	0.0	
EEC0023	18 Special Topics on Global Environment Issues	2.0	2.0	0.0	
EEC0026	19 Special Topics on Environmental Values Education	2.0	2.0	0.0	
EEC0027	20 Special Topics on Environmental Science	2.0	2.0	0.0	
EEC0029	21 Planning of Environmental Education System	3.0	3.0	0.0	
EEC0035	22 E Philosophy of Recreation and Leisure	3.0	3.0	0.0	
EEC0036	23 Environmental Sociology	3.0	3.0	0.0	
EEC0037	24 Environmental Change and Civilization	3.0	3.0	0.0	
EEC0040	25 Ocean Policies and International Island Societies	3.0	3.0	0.0	
EEC8001	26 Environmental Discourse, Communication, and Academic Thesis Writing	3.0	3.0	0.0	
EEC8002	27 Environmental Ethics	3.0	3.0	0.0	
EEC8003	28 E Wetlands Environmental Education	3.0	3.0	0.0	
EEC8004	29 The Theory and Practice of Planning and Design for Sustainability	3.0	3.0	0.0	
EEC8005	30 Environmental Behavior Science	3.0	3.0	0.0	
EEC8006	31 Environmental Education Philosophy	3.0	3.0	0.0	
EEC8007	32 Idea and Principle of Eco-philosophy	3.0	3.0	0.0	
EEC8008	33 Issues and Trends in Environmental Education	3.0	3.0	0.0	
EEC8009	34 Critical Analysis on Ecological Issues	3.0	3.0	0.0	
EEC8010	35 E Sustainability Sciences	3.0	3.0	0.0	
EEC8011	36 Alternative Paradigms for Environmental Education Research	3.0	3.0	0.0	
EEC8012	37 E Methods for Eco-information Analysis	3.0	3.0	0.0	
EEC8013	38 Methods for Environmental Education Program Evaluation	3.0	3.0	0.0	
EEC8014	39 Special Topics on Environmental Education and Environmental Issues	2.0	2.0	0.0	
EEC8015	40 Special Topics on Islands Sustainable Development	2.0	2.0	0.0	
EEC8016	41 Special Topics on Human Dimensions of Environmental Change	2.0	2.0	0.0	
EEC8017	42 Pedagogy of Environmental Education	3.0	3.0	0.0	
EEC8018	43 Special Topics on Environmental Interpretation	2.0	2.0	0.0	
EEC8019	44 Environmental Discourse and Academic Writing	3.0	3.0	0.0	
EEC8020	45 Environmental Philosophy	3.0	3.0	0.0	
EEC8021	46 Corporate Management and Sustainable Development	3.0	3.0	0.0	
EEC8023	47 Environmental Ecology	3.0	3.0	0.0	
EEC8025	48 Curriculum Design in Environmental Education	3.0	3.0	0.0	
EEC8026	49 Teaching Practice of Ecological and Environmental Education	2.0	2.0	0.0	
EEC8027	50 Environmental Communication	3.0	3.0	0.0	
EEC8028	51 Environmental Policies and Management	2.0	2.0	0.0	

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8029	52 River Environmental Education	3.0	3.0	0.0	
EEC8030	53 Special Topics in Formal Environmental Education	2.0	2.0	0.0	
EEC8031	54 Special Topics in Non-formal Environmental Education	2.0	2.0	0.0	
EEC8032	55 Special Topics in Environmental Conservation	2.0	2.0	0.0	
EEC8033	56 Special Topics in Conservation Biology	2.0	2.0	0.0	
EEC8034	57 Special Topics in Environmental Ethics	2.0	2.0	0.0	
EEC8035	58 Special Topics in Outdoor Environmental Education	2.0	2.0	0.0	
EEC8036	59 Administration of Environmental Education	3.0	3.0	0.0	
EEC8037	60 Teaching Materials and Methods of Ecology	2.0	2.0	0.0	
EEC8038	61 Eco-photography and Environmental Education	3.0	3.0	0.0	
EEC8039	62 Island Environment and Development	3.0	3.0	0.0	
EEC8040	63 Eco-Environmental Impact Assessment (EEIA)	3.0	3.0	0.0	
EEC8041	64 National Parks and Nature Reserves: Theories and Practice	3.0	3.0	0.0	
EEC8042	65 Environmental Education in Museums	3.0	3.0	0.0	
EEC8043	66 Ecological Engineering Methods and Environmental Education	3.0	3.0	0.0	
EEC8044	67 Environmental Economics	3.0	3.0	0.0	
EEC8045	68 Disaster Prevention and Mitigation Education	3.0	3.0	0.0	
EEC8046	69 Practices and Analysis of Green Industries	3.0	3.0	0.0	
EEC8047	70 Interpretation and Recreation Resource Management	3.0	3.0	0.0	
EEC8049	71 E Environmental Information and Spatial Visualization	3.0	3.0	0.0	
EEC8050	72 E International Environmental Communication	3.0	3.0	0.0	
EEC8051	73 E Environmental Systems Analysis	3.0	3.0	0.0	
EEC8052	74 Climate Change Education for Sustainable Development	3.0	3.0	0.0	
EEC8053	75 E Climate Change and Disaster Risk in Asia-Pacific	3.0	3.0	0.0	
EEC8054	76 Environmental Data Processing and Analysis	3.0	3.0	0.0	
EEC8055	77 Theories and Practices of Circular Economy	3.0	3.0	0.0	
EEC8057	78 Carbon Management	3.0	3.0	0.0	
EEC8058	79 Regional Planning and Management toward Sustainability	3.0	3.0	0.0	
EEC8059	80 E Conservation Psychology	3.0	3.0	0.0	
EEC8060	81 Outdoor Education	3.0	3.0	0.0	
EEC8061	82 Pedagogy and Teaching Material in Environmental Education	3.0	3.0	0.0	
EEC8062	83 Sustainable Finance	3.0	3.0	0.0	
EEC8063	84 Case Studies in Sustainability Management	3.0	3.0	0.0	
EEC8064	85 Analysis and Application of Sustainability-Related Financial Reporting	3.0	3.0	0.0	
EEC8066	86 E Climate Change and Society Studies	3.0	3.0	0.0	
EEM0088	87 Practicum in Environmental Education	2.0	0.0	4.0	

C-1. Required Course for , 3.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8065	1 E Research on Sustainability Management	3.0	3.0	0.0	

C-2. Elective Course for , 15.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8022	1 E Studies in Environmental Education	3.0	3.0	0.0	
EEC0035	2 E Philosophy of Recreation and Leisure	3.0	3.0	0.0	
EEC8003	3 E Wetlands Environmental Education	3.0	3.0	0.0	
EEC8010	4 E Sustainability Sciences	3.0	3.0	0.0	
EEC8012	5 E Methods for Eco-information Analysis	3.0	3.0	0.0	
EEC8049	6 E Environmental Information and Spatial Visualization	3.0	3.0	0.0	
EEC8050	7 E International Environmental Communication	3.0	3.0	0.0	
EEC8051	8 E Environmental Systems Analysis	3.0	3.0	0.0	
EEC8053	9 E Climate Change and Disaster Risk in Asia-Pacific	3.0	3.0	0.0	
EEC8059	10 E Conservation Psychology	3.0	3.0	0.0	
EEC8066	11 E Climate Change and Society Studies	3.0	3.0	0.0	

D-1. Required Course for , 3.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8022	1 E Studies in Environmental Education	3.0	3.0	0.0	

D-2. Elective Course for , 15.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
EEC8065	1 E Research on Sustainability Management	3.0	3.0	0.0	
EEC0035	2 E Philosophy of Recreation and Leisure	3.0	3.0	0.0	
EEC8003	3 E Wetlands Environmental Education	3.0	3.0	0.0	
EEC8010	4 E Sustainability Sciences	3.0	3.0	0.0	
EEC8012	5 E Methods for Eco-information Analysis	3.0	3.0	0.0	
EEC8049	6 E Environmental Information and Spatial Visualization	3.0	3.0	0.0	
EEC8050	7 E International Environmental Communication	3.0	3.0	0.0	
EEC8051	8 E Environmental Systems Analysis	3.0	3.0	0.0	
EEC8053	9 E Climate Change and Disaster Risk in Asia-Pacific	3.0	3.0	0.0	
EEC8059	10 E Conservation Psychology	3.0	3.0	0.0	
EEC8066	11 E Climate Change and Society Studies	3.0	3.0	0.0	

IV. Free Elective Credits

A Free Elective Credit for , 0.0 credit is required

B Free Elective Credit for , 0.0 credit is required

C Free Elective Credit for , 0.0 credit is required

D Free Elective Credit for , 0.0 credit is required